



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

WinDoor, Inc.
7500 Amsterdam Drive
Orlando, FL 32832

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "4070" Aluminum Horizontal Rolling Window - L.M.I.

APPROVAL DOCUMENT: Drawing No. 08-01969, titled "4070 Horizontal Rolling Window - XOX, XO & OX", sheets 1 through 12 of 12, dated 03/22/13, with revision A dated 12/02/13, prepared by manufacturer, signed and sealed by Luis R. Lomas, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by Manuel Perez, P.E.



7/2/13/14

NOA No. 13-0624.04
Expiration Date: January 23, 2019
Approval Date: January 23, 2014
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **08-01969**, titled "4070 Horizontal Rolling Window – XOX, XO & OX", sheets 1 through 12 of 12, dated 03/22/13, with revision A dated 12/02/13, prepared by manufacturer, signed and sealed by Luis R. Lomas, P.E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Forced Entry Test, per FBC 2411.3.2.1, and TAS 202-94
5) Large Missile Impact Test per FBC, TAS 201-94
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a series 4070 aluminum horizontal rolling window, prepared by National Certified Testing Laboratories, Test Report No. **NCTL-210-3848-24**, dated 03/14/13, and revised on 10/23/13, signed and sealed by Gerard J. Ferrara, P.E.

C. CALCULATIONS:

1. Anchor verification calculations and structural analysis, complying with **FBC-2010**, dated 04/01/13, prepared, signed and sealed by Luis R. Lomas, P.E.
2. Glazing complies with **ASTM E1300-04**

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

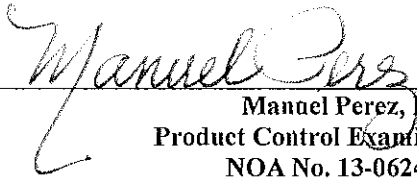
1. Notice of Acceptance No. **11-0624.02** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont SentryGlas® Interlayer**" dated 08/25/11, expiring on 01/14/17.
2. Notice of Acceptance No. **13-0129.27** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont Butacite® PVB Interlayer**" dated 04/11/13, expiring on 12/11/16.

F. STATEMENTS

1. Statement letter of conformance, complying with the **FBC-2010** and of no financial interest, dated April 01, 2013, signed and sealed by Luis R. Lomas, P.E.
2. Proposal **#12-0846** issued by Product Control Section on 05/11/12, signed by Manuel Perez, P.E.

G. OTHERS

1. None.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 13-0624.04
Expiration Date: January 23, 2019
Approval Date: January 23, 2014

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	UPDATED PER MD COMMENTS	12/02/13	R.L.

NOTES:

- THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING THE HVHZ.
- WOOD FRAMING AND MASONRY OPENING TO BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO STRUCTURE. FRAMING AND MASONRY OPENING IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
- 1X BUCK OVER MASONRY/CONCRETE IS OPTIONAL.
- WHERE SHIM OR BUCK THICKNESS IS LESS THAN 1-1/2" WINDOW UNITS MUST BE ANCHORED THROUGH THE FRAME IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. ANCHORS SHALL BE SECURELY FASTENED DIRECTLY INTO MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE MATERIAL.
- WHERE WOOD BUCK THICKNESS IS 1-1/2" OR GREATER, BUCK SHALL BE SECURELY FASTENED TO MASONRY, CONCRETE OR OTHER STRUCTURAL SUBSTRATE. WINDOW UNITS MAY BE ANCHORED THROUGH FRAME TO SECURED WOOD BUCK IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS.
- WHERE 1X BUCK IS NOT USED DISSIMILAR MATERIALS MUST BE SEPARATED WITH APPROVED COATING OR MEMBRANE. SELECTION OF COATING OR MEMBRANE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
- BUCKS SHALL EXTEND BEYOND WINDOW INTERIOR FACE SO THAT FULL FRAME SUPPORT IS PROVIDED.
- SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM. SHIM WHERE SPACE OF 1/16" OR GREATER OCCURS. MAXIMUM ALLOWABLE SHIM STACK TO BE 1/4".
- SHIMS SHALL BE MADE FROM MATERIALS CAPABLE OF SUSTAINING APPLICABLE LOADS, LOCATED AND APPLIED IN A THICKNESS CAPABLE OF SUSTAINING APPLICABLE LOADS.
- WIND LOAD DURATION FACTOR Cd=1.6 WAS USED FOR WOOD ANCHOR CALCULATIONS.
- FRAME MATERIAL: ALUMINUM 6063-T6.
- UNITS MUST BE GLAZED PER ASTM E1300-04, SEE SHEET 8 FOR GLASS OPTIONS.
- APPROVED IMPACT PROTECTIVE SYSTEM IS NOT REQUIRED FOR THIS PRODUCT IN WIND BORNE DEBRIS REGIONS.
- FOR ANCHORING INTO WOOD FRAMING OR 2X BUCK USE #14 WOOD SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 7/16" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 1/2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.

- FOR ANCHORING INTO MASONRY/CONCRETE USE 1/4" TAPCONS WITH SUFFICIENT LENGTH TO ACHIEVE A 1 1/4" MINIMUM EMBEDMENT INTO SUBSTRATE WITH 2 1/2" MINIMUM EDGE DISTANCE. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
- FOR ANCHORING INTO METAL STRUCTURE USE #14 SMS OR SELF DRILLING SCREWS WITH SUFFICIENT LENGTH TO ACHIEVE 3 THREADS MINIMUM BEYOND STRUCTURE INTERIOR WALL. LOCATE ANCHORS AS SHOWN IN ELEVATIONS AND INSTALLATION DETAILS.
- ALL FASTENERS TO BE CORROSION RESISTANT.
- INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BELOW:
 - WOOD - MINIMUM SPECIFIC GRAVITY OF G=0.42
 - CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3,192 PSI.
 - MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, GRADE N, TYPE 1 (OR GREATER).
 - METAL STRUCTURE: STEEL 18GA, 33KSI OR ALUMINUM 6063-T5 1/8" THICK MINIMUM.
- APPROVED CONFIGURATIONS: OX, XO, XOX.

TABLE OF CONTENTS	
SHEET NO.	DESCRIPTION
1	NOTES
2 - 7	ELEVATIONS AND ANCHORING
8 - 10	B.O.M, GLAZING DETAILS AND CROSS SECTIONS
11 -14	INSTALLATION DETAILS
15	COMPONENTS

Approved as complying with the
Florida Building Code
Date: Jan. 23, 2014
NOAH 13-0624.04
Miami Dade Product Control

By: *Mmanuel King*

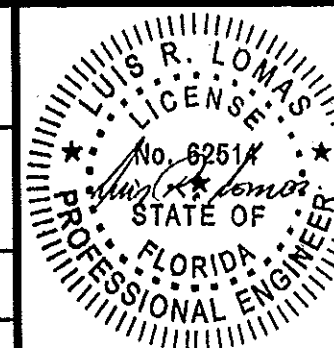
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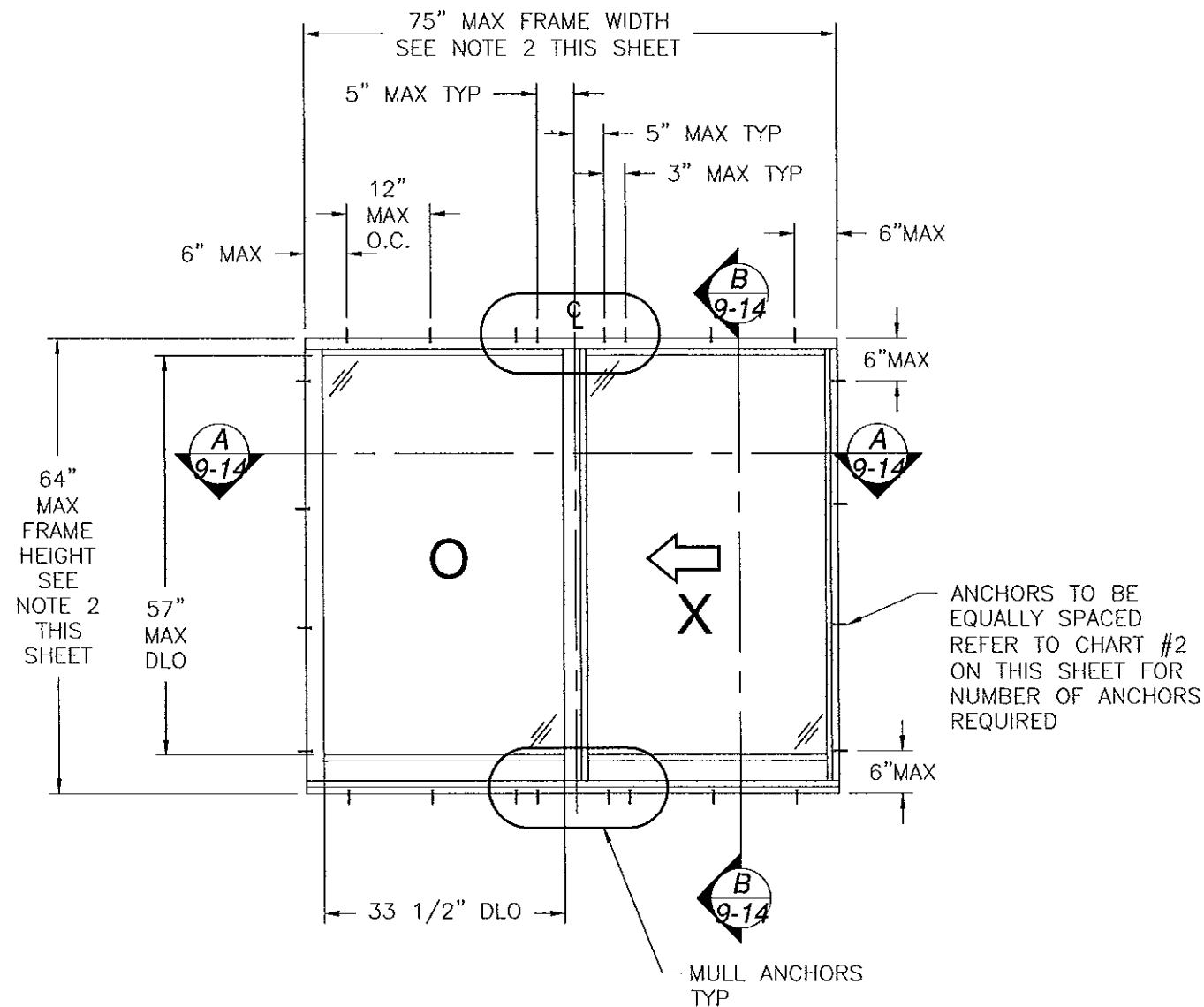
4070 HORIZONTAL ROLLING WINDOW
XOX, XO & OX
NOTES

DRAWN: V.L.	DWG NO. 08-01969	REV A
SCALE NTS	DATE 3/22/2013	SHEET 1 OF 15

SIGNED: 12/04/2013



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	UPDATED PER MD COMMENTS	12/02/13	R.L.



4070 HORIZONTAL ROLLING WINDOW
XO EQUAL LITE
EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
±80PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4, AND HVHZ
WITH GLASS A & B
SEE CHARTS 1 AND 2

CHART #1

Maximum design pressure (psf)										
Frame Height (in)	Frame Width (in)									
	36.00		48.00		60.00		72.00		75.63	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
30.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
36.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
42.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
48.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
54.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
60.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	87.8
64.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	82.4	80.0	80.0

CHART #2

Number of anchor locations required															
Frame Height (in)	Frame width (in)														
	36.00			48.00			60.00			72.00			75.63		
	H&S	Jamb	Mull H&S	H&S	Jamb	Mull H&S	H&S	Jamb	Mull H&S	H&S	Jamb	Mull H&S	H&S	Jamb	Mull H&S
30.00	1	3	4	1	3	4	2	3	4	2	3	4	2	3	4
36.00	1	3	4	1	3	4	2	3	4	2	3	4	2	3	4
42.00	1	3	4	1	3	4	2	3	4	2	3	4	2	3	4
48.00	1	4	4	1	4	4	2	4	4	2	4	4	2	4	4
54.00	1	4	4	1	4	4	2	4	4	2	4	4	2	4	4
60.00	1	4	4	1	4	4	2	4	4	2	4	4	2	4	4
64.00	1	5	4	1	5	4	2	5	4	2	5	4	2	5	4

WEEP HOLES:

- ONE WEEP SLOT LOCATED 9" FROM EACH END ON SILL FRAME.
- DIMENSIONS SHOWN DO NOT INCLUDE FLANGE. FOR UNITS WITH FLANGE FRAME ADD 1-1/4" TO OVERALL DIMENSIONS.

SIGNED: 12/04/2013

Approved as complying with the
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NOA# 13-0624-04
Miami Dade Product Control

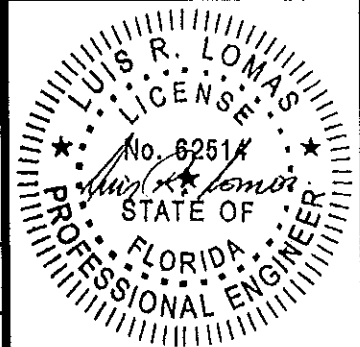
By *Manuel Perez*

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INCORPORATED

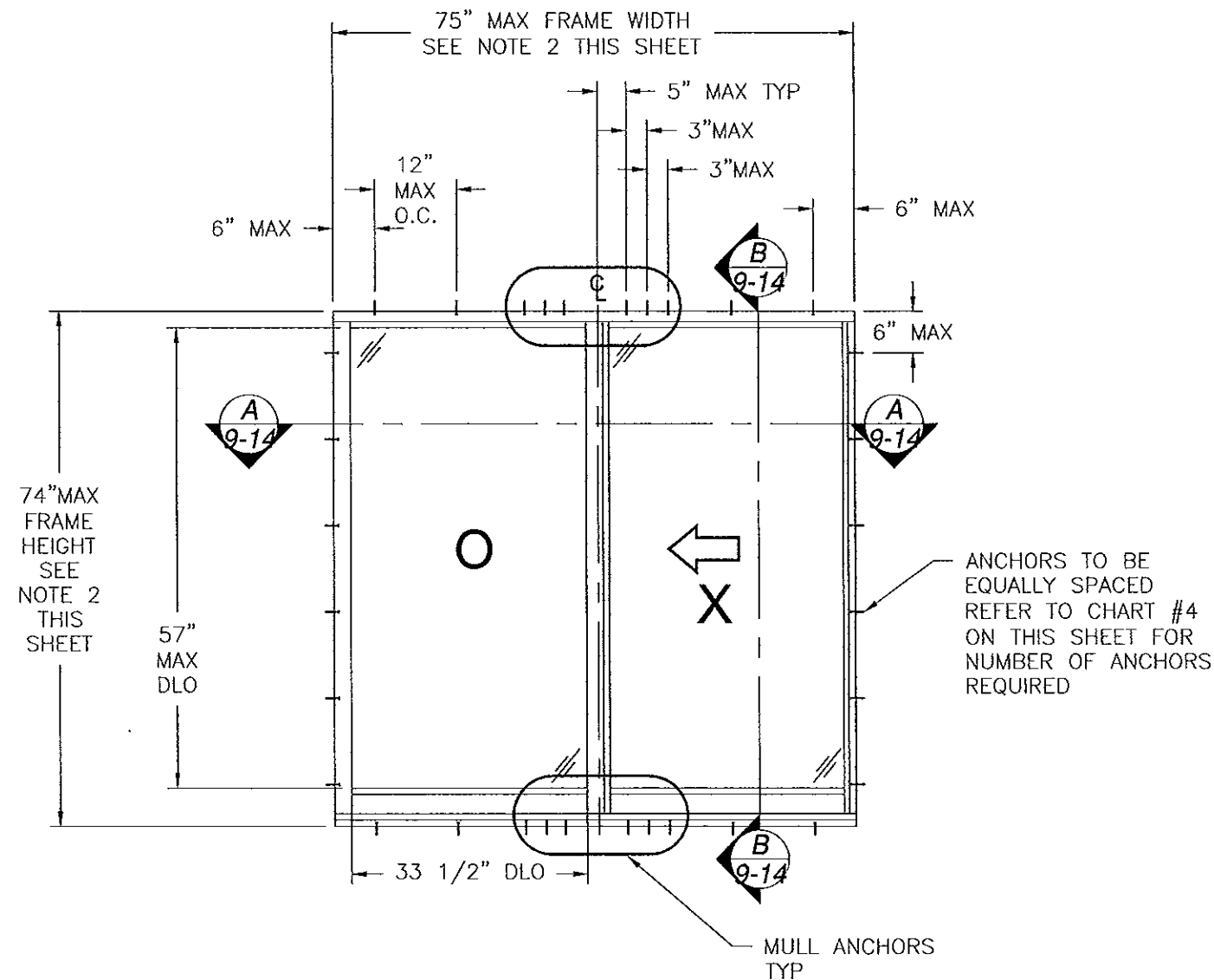
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www.windoorinc.com

4070 HORIZONTAL ROLLING WINDOW
XOX, XO & OX
OX, OX ELEVATION

DRAWN: V.L.	DWG NO. 08-01969	REV A
SCALE NTS	DATE 3/22/2013	SHEET 2 OF 15



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	UPDATED PER MD COMMENTS	12/02/13	R.L.



4070 HORIZONTAL ROLLING WINDOW
XO EQUAL LITE
EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
+90.0/-130.0PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4, AND HVHZ
WITH GLASS C & D
SEE CHARTS 3 AND 4

CHART #3

Maximum design pressure (psf)										
Frame Height (in)	Frame Width (in)									
	36.00		48.00		60.00		72.00		75.63	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
42.0	90.0	150.0	90.0	150.0	90.0	150.0	90.0	150.0	90.0	150.0
48.0	90.0	150.0	90.0	150.0	90.0	150.0	90.0	150.0	90.0	150.0
54.0	90.0	150.0	90.0	150.0	90.0	150.0	90.0	150.0	90.0	150.0
60.0	90.0	150.0	90.0	150.0	90.0	150.0	90.0	150.0	90.0	150.0
66.0	90.0	150.0	90.0	150.0	90.0	150.0	90.0	150.0	90.0	150.0
72.0	90.0	150.0	90.0	150.0	90.0	150.0	90.0	139.3	90.0	134.9
74.0	90.0	150.0	90.0	150.0	90.0	150.0	90.0	134.3	90.0	130.0

CHART #4

Number of anchor locations required															
Frame Height (in)	Frame width (in)														
	36.00			48.00			60.00			72.00			75.63		
	H&S	Jamb	Mull H&S	H&S	Jamb	Mull H&S	H&S	Jamb	Mull H&S	H&S	Jamb	Mull H&S	H&S	Jamb	Mull H&S
42.00	1	3	4	1	3	4	2	3	4	3	3	4	3	3	4
48.00	1	4	4	1	4	4	2	4	4	3	4	4	3	4	4
54.00	1	4	4	1	4	4	2	4	4	3	5	5	3	5	5
60.00	1	5	4	1	5	4	2	5	5	3	5	5	3	5	5
66.00	1	5	4	1	5	5	2	5	5	3	6	6	3	6	6
72.00	1	5	4	1	5	5	2	6	6	2	6	6	3	6	6
74.00	1	5	4	1	5	5	2	6	6	2	6	6	2	6	6

- WEEP HOLES:
- ONE WEEP SLOT LOCATED 9" FROM EACH END ON SILL FRAME.
 - DIMENSIONS SHOWN DO NOT INCLUDE FLANGE. FOR UNITS WITH FLANGE FRAME ADD 1-1/4" TO OVERALL DIMENSIONS.

SIGNED: 12/04/2013

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Date Jan 23 2014
NOAH 13-0624-04
Miami Dade Product Control

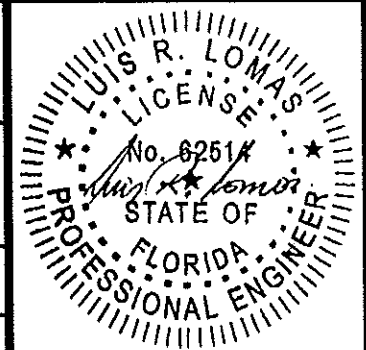
By Manuel Perez

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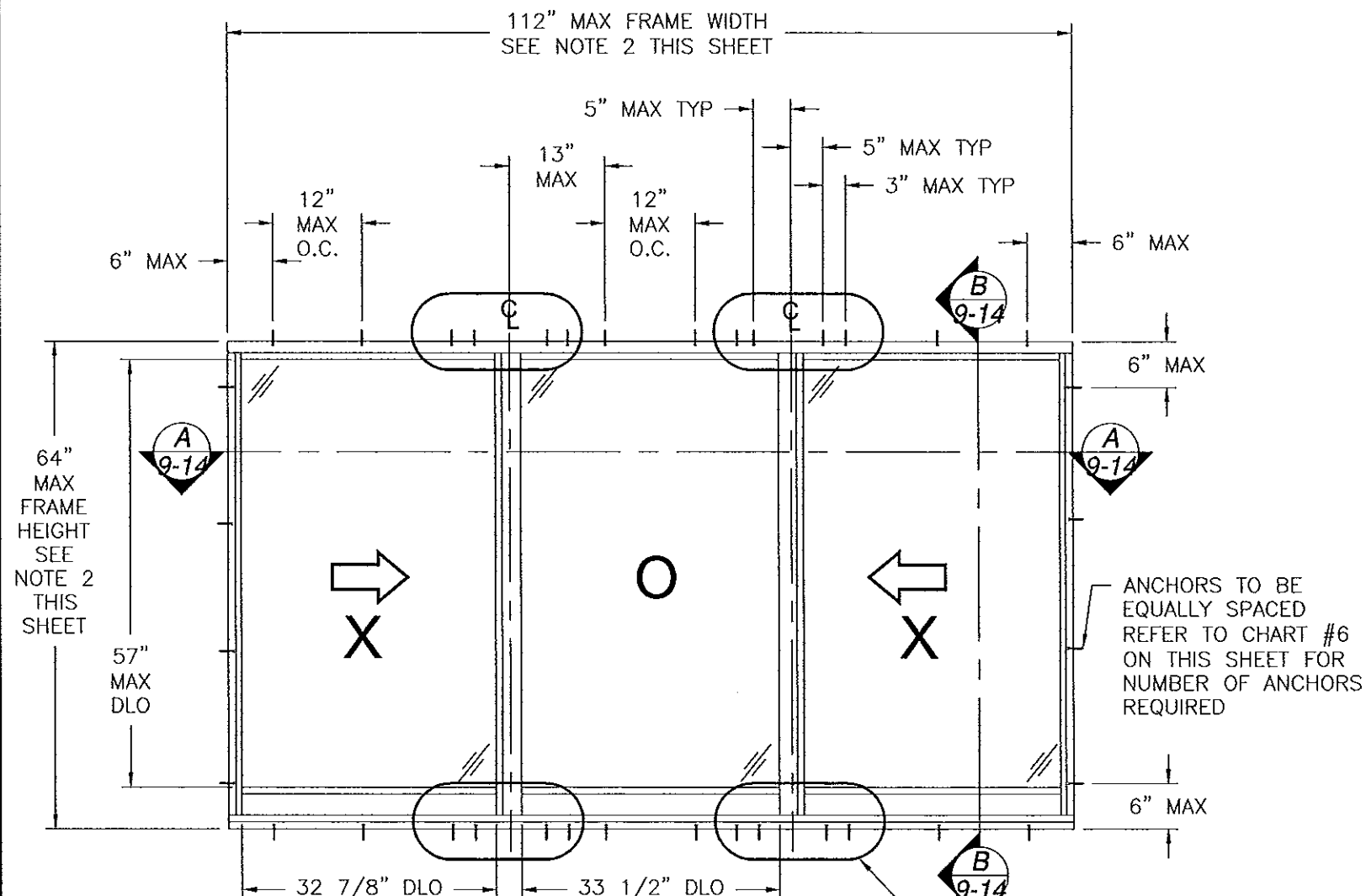
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4070 HORIZONTAL ROLLING WINDOW
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DRAWN: V.L.	DWG NO. 08-01969	REV A
SCALE NTS	DATE 3/22/2013	SHEET 3 OF 15



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4070 HORIZONTAL ROLLING WINDOW
XOX EQUAL LITE
 EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
±80PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4, AND HVHZ
 WITH GLASS A & B
 SEE CHARTS 5 AND 6

CHART #5

Maximum design pressure capacity chart (psf)										
Frame Height (in)	Unit width (in)									
	54.00		72.00		90.00		108.00		112.00	
	18.00	24.00	30.00	36.00	37.33	37.33	37.33	37.33	37.33	37.33
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
30.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
36.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
42.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
48.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
54.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
60.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0
64.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0

CHART #6

Number of anchor locations required															
Frame Height (In)	Frame width (In)														
	54.00			72.00			90.00			108.00			112.00		
	H&S	Jamb	Mull H&S	H&S	Jamb	Mull H&S	H&S	Jamb	Mull H&S	H&S	Jamb	Mull H&S	H&S	Jamb	Mull H&S
30.00	1	3	4	1	3	4	2	3	4	2	3	4	2	3	4
36.00	1	3	4	1	3	4	2	3	4	2	3	4	2	3	4
42.00	1	3	4	1	3	4	2	3	4	2	3	4	2	3	4
48.00	1	4	4	1	4	4	2	4	4	2	4	4	2	4	4
54.00	1	4	4	1	4	4	2	4	4	2	4	4	2	4	4
60.00	1	4	4	1	4	4	2	4	4	2	4	4	2	4	4
64.00	1	5	4	1	5	4	2	5	4	2	5	4	2	5	4

WEEP HOLES:

- ONE WEEP SLOT LOCATED 9" FROM EACH END ON SILL FRAME.
- DIMENSIONS SHOWN DO NOT INCLUDE FLANGE. FOR UNITS WITH FLANGE FRAME ADD 1-1/4" TO OVERALL DIMENSIONS.

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By: *Manuel Perez*

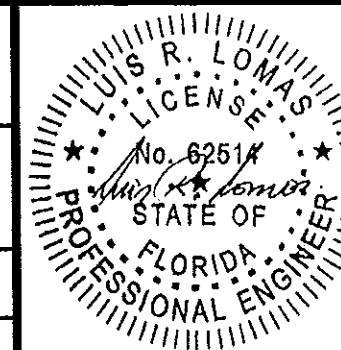
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4070 HORIZONTAL ROLLING WINDOW
 XOX, XO & OX
 XOX (1/3-1/3-1/3) ELEVATION

DRAWN: V.L.	DWG NO. 08-01969	REV A
SCALE NTS	DATE 3/22/2013	SHEET 4 OF 15

SIGNED: 12/04/2013



REVISIONS			
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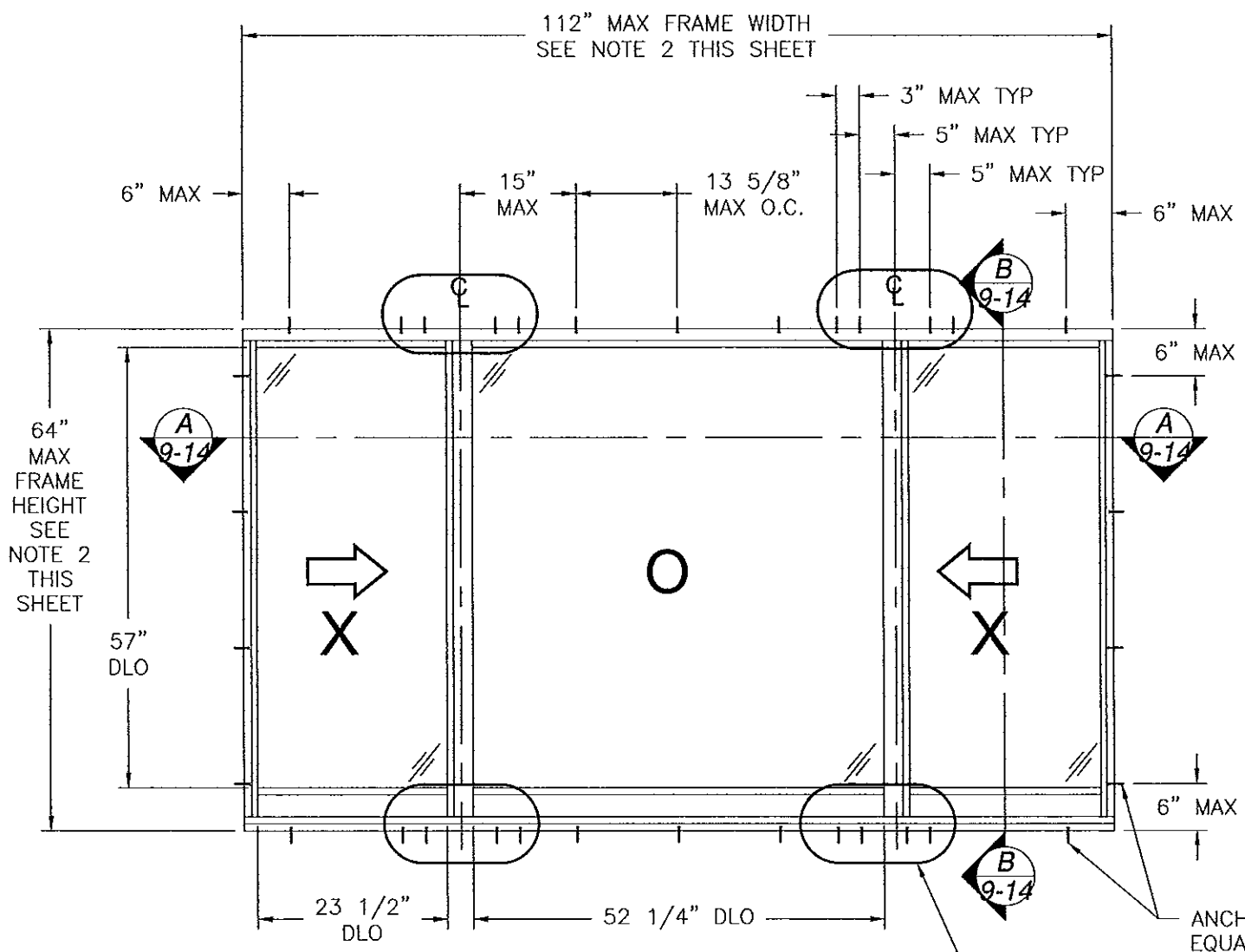


CHART #7

Maximum design pressure capacity chart (psf)											
Frame Height (in)	Unit width (in)										Total Side Center
	54.00		72.00		90.00		108.00		112.00		
	13.50		18.00		22.50		27.00		28.00		
	27.00		36.00		45.00		54.00		56.00		
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	
30.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	
36.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	
42.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	
48.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	
54.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	
60.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	90.0	80.0	88.7	
64.0	80.0	90.0	80.0	90.0	80.0	89.5	80.0	81.3	80.0	80.0	

CHART #8

Number of anchors required

Frame Height (in)	Frame width (in)															
	54.00				72.00				90.00				108.00			
	H&S unit 1&3	Jamb	Mull H&S	H&S unit 2	H&S unit 1&3	Jamb	Mull H&S	H&S unit 2	H&S unit 1&3	Jamb	Mull H&S	H&S unit 2	H&S unit 1&3	Jamb	Mull H&S	H&S unit 2
30.00	1	3	4	1	1	3	4	2	1	3	4	2	1	3	4	3
36.00	1	3	4	1	1	3	4	2	1	3	4	2	1	3	4	3
42.00	1	3	4	1	1	3	4	2	1	3	4	2	1	3	4	3
48.00	1	4	4	1	1	4	4	2	1	4	4	2	1	4	4	3
54.00	1	4	4	1	1	4	4	2	1	4	4	2	1	4	4	4
60.00	1	4	4	1	1	4	4	2	1	4	4	2	1	4	4	3
64.00	1	4	4	1	1	4	4	2	1	4	4	2	1	4	4	3

- WEEP HOLES:
- ONE WEEP SLOT LOCATED 9" FROM EACH END ON SILL FRAME.
 - DIMENSIONS SHOWN DO NOT INCLUDE FLANGE. FOR UNITS WITH FLANGE FRAME ADD 1-1/4" TO OVERALL DIMENSIONS.

4070 HORIZONTAL ROLLING WINDOW XOX
EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
±80PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4, AND HVHZ
WITH GLASS A & B
SEE CHARTS 7 AND 8

ANCHORS TO BE EQUALLY SPACED
REFER TO CHART #8
ON THIS SHEET FOR
NUMBER OF ANCHORS
REQUIRED

MULLION ANCHORS
TYP

Approved as complying with the Florida Building Code
Date: Jan 23, 2014
NOA# 13-0624-04
Miami Dade Product Control
By: *Manuel Perez*

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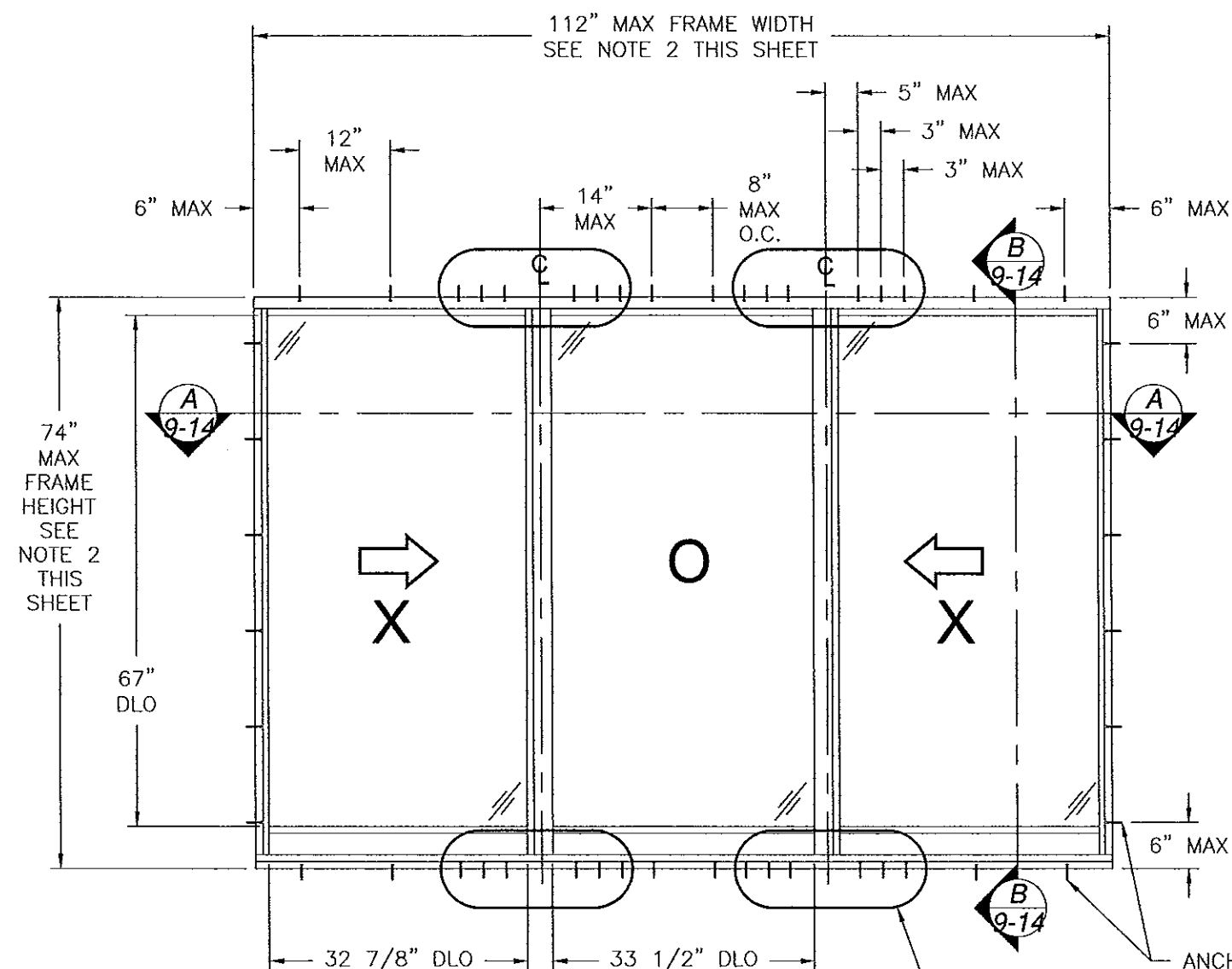
7500 AMSTERDAM DRIVE
ORLANDO, FL 32832
Phone: 407.481.8400
Fax: 407.481.0305
www.windoorinc.com

4070 HORIZONTAL ROLLING WINDOW
XOX, XO & OX
XOX (1/4-1/2-1/4) ELEVATION

DRAWN: V.L.	DWG NO. 08-01969	REV A
SCALE NTS	DATE 3/22/2013	SHEET 5 OF 15

SIGNED: 12/04/2013

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	UPDATED PER MD COMMENTS	12/02/13	R.L.



4070 HORIZONTAL ROLLING WINDOW
XOX EQUAL LITE
 EXTERIOR VIEW

DESIGN PRESSURE RATING	IMPACT RATING
+90.0/-130.0PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4, AND HVHZ
 WITH GLASS C & D
 SEE CHARTS 9 AND 10

ANCHORS TO BE
 EQUALLY SPACED
 REFER TO CHART #10
 ON THIS SHEET FOR
 NUMBER OF ANCHORS
 REQUIRED

MULLION ANCHORS
 TYP

CHART #9

Maximum design pressure capacity chart (psf)										
Frame Height (in)	Unit width (in)									
	54.00		72.00		90.00		108.00		112.00	
	18.00		24.00		30.00		36.00		37.33	
	18.00		24.00		30.00		36.00		37.33	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
42.0	90.0	150.0	90.0	150.0	90.0	150.0	90.0	150.0	90.0	150.0
48.0	90.0	150.0	90.0	150.0	90.0	150.0	90.0	150.0	90.0	150.0
54.0	90.0	150.0	90.0	150.0	90.0	150.0	90.0	150.0	90.0	150.0
60.0	90.0	150.0	90.0	150.0	90.0	150.0	90.0	150.0	90.0	150.0
66.0	90.0	150.0	90.0	150.0	90.0	150.0	90.0	150.0	90.0	150.0
72.0	90.0	150.0	90.0	150.0	90.0	150.0	90.0	138.1	90.0	134.9
74.0	90.0	150.0	90.0	150.0	90.0	150.0	90.0	133.2	90.0	130.0

CHART #10

Number of anchor locations required														
Frame Height (in)	Frame width (in)													
	54.00			72.00			90.00			108.00			112.00	
	H&S	Jamb	Mull H&S	H&S	Jamb	Mull H&S	H&S	Jamb	Mull H&S	H&S	Jamb	Mull H&S	H&S	Jamb
42.00	1	3	4	1	3	4	2	3	4	3	3	4	3	4
48.00	1	4	4	1	4	4	2	4	4	3	4	4	3	4
54.00	1	4	4	1	4	4	2	4	4	3	5	5	3	5
60.00	1	5	4	1	5	4	2	5	5	3	5	5	3	5
66.00	1	5	4	1	5	5	2	5	5	3	6	6	3	6
72.00	1	5	4	1	5	5	2	6	6	2	6	6	3	6
74.00	1	5	4	1	5	5	2	6	6	2	6	6	2	6

WEEP HOLES:

- ONE WEEP SLOT LOCATED 9" FROM EACH END ON SILL FRAME.
- DIMENSIONS SHOWN DO NOT INCLUDE FLANGE. FOR UNITS WITH FLANGE FRAME ADD 1-1/4" TO OVERALL DIMENSIONS.

SIGNED: 12/04/2013

Approved as complying with the
 Florida Building Code
 Date Jan 23, 2014
 NOAH 13-0624-04
 Miami Dade Product Control

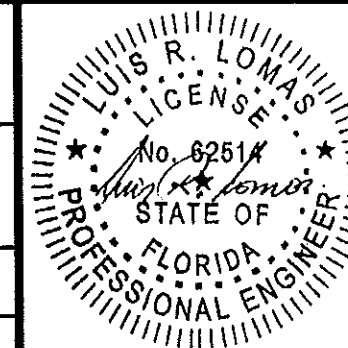
By Manuel Perez

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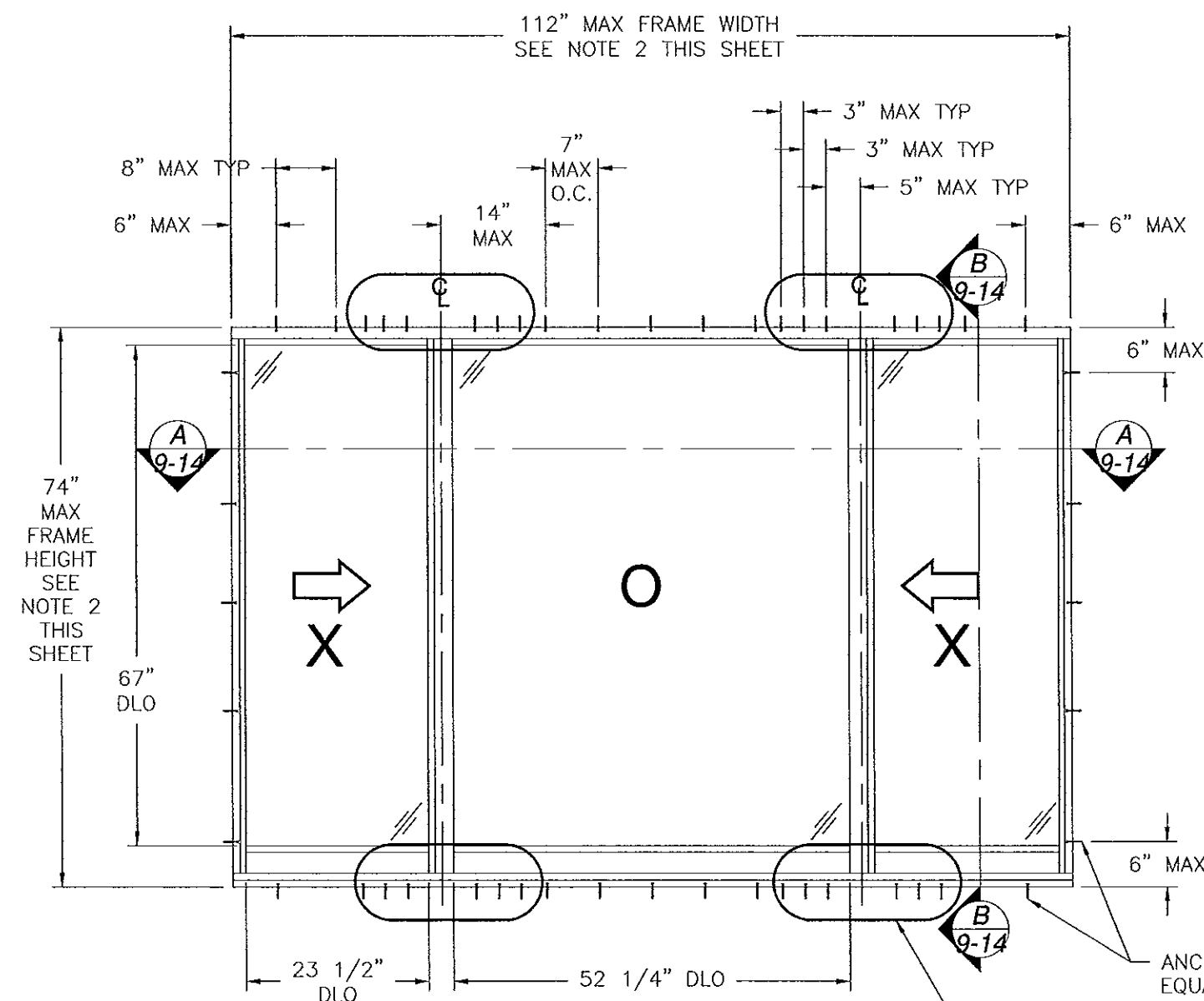
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 www.windoorinc.com

4070 HORIZONTAL ROLLING WINDOW
 XOX, XO & OX
 XOX (1/3-1/3-1/3) ELEVATION

DRAWN: V.L.	DWG NO. 08-01969	REV A
SCALE NTS	DATE 3/22/2013	SHEET 6 OF 15



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	UPDATED PER MD COMMENTS	12/02/13	R.L.



4070 HORIZONTAL ROLLING WINDOW XOx
EXTERIOR VIEW STRAP INSTALLATION

DESIGN PRESSURE RATING	IMPACT RATING
+90.0/-130.0PSF	LARGE AND SMALL MISSILE IMPACT

MISSILE LEVEL D, WIND ZONE 4, AND HVHZ
WITH GLASS C & D
SEE CHARTS 11 AND 12

MULLION ANCHORS
TYP

ANCHORS TO BE
EQUALLY SPACED
REFER TO CHART #12
ON THIS SHEET FOR
NUMBER OF ANCHORS
REQUIRED

CHART #11

Maximum design pressure capacity chart (psf)										
Frame Height (in)	Unit width (in)									
	54.00		72.00		90.00		108.00		112.00	
	13.50		18.00		22.50		27.00		28.00	
	27.00		36.00		45.00		54.00		56.00	
	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg	Pos	Neg
42.0	90.0	150.0	90.0	150.0	90.0	150.0	90.0	150.0	90.0	150.0
48.0	90.0	150.0	90.0	150.0	90.0	150.0	90.0	150.0	90.0	150.0
54.0	90.0	150.0	90.0	150.0	90.0	150.0	90.0	150.0	90.0	150.0
60.0	90.0	150.0	90.0	150.0	90.0	150.0	90.0	150.0	90.0	150.0
66.0	90.0	150.0	90.0	150.0	90.0	150.0	90.0	150.0	90.0	150.0
72.0	90.0	150.0	90.0	150.0	90.0	150.0	90.0	138.0	90.0	135.3
74.0	90.0	150.0	90.0	150.0	90.0	148.4	90.0	132.6	90.0	130.0

CHART #12

Number of anchors required																				
Frame Height (in)	Frame width (in)																			
	54.00				72.00				90.00				108.00				112.00			
	H&S unit 1&3	Jamb	Mull H&S	H&S unit 2	H&S unit 1&3	Jamb	Mull H&S	H&S unit 2	H&S unit 1&3	Jamb	Mull H&S	H&S unit 2	H&S unit 1&3	Jamb	Mull H&S	H&S unit 2	H&S unit 1&3	Jamb	Mull H&S	H&S unit 2
42.00	1	3	4	2	1	3	4	3	1	3	4	4	2	3	4	5	2	3	4	5
48.00	1	4	4	2	1	4	4	3	1	4	4	4	2	4	4	5	2	4	4	5
54.00	1	4	4	2	1	4	4	3	1	4	4	4	2	4	5	5	2	4	5	6
60.00	1	5	4	2	1	5	4	3	1	5	5	4	2	5	5	5	2	5	5	6
66.00	1	5	4	2	1	5	5	3	1	5	6	4	2	5	6	5	2	5	6	6
72.00	1	5	4	2	1	5	5	3	1	5	6	4	2	5	6	5	2	5	6	5
74.00	1	5	5	2	1	5	6	3	1	5	6	4	2	5	6	5	2	5	6	5

WEEP HOLES:

- ONE WEEP SLOT LOCATED 9" FROM EACH END ON SILL FRAME.
- DIMENSIONS SHOWN DO NOT INCLUDE FLANGE. FOR UNITS WITH FLANGE FRAME ADD 1-1/4" TO OVERALL DIMENSIONS.

SIGNED: 12/04/2013

Approved as complying with the
Florida Building Code
Date: Jan 23, 2014
NOA# 13-0624-04
Miami Dade Product Control

By: [Signature]

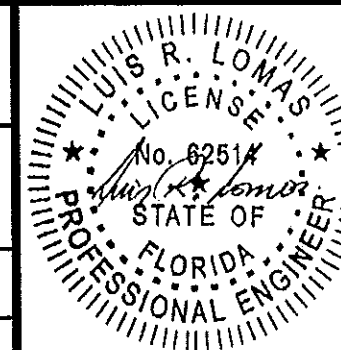
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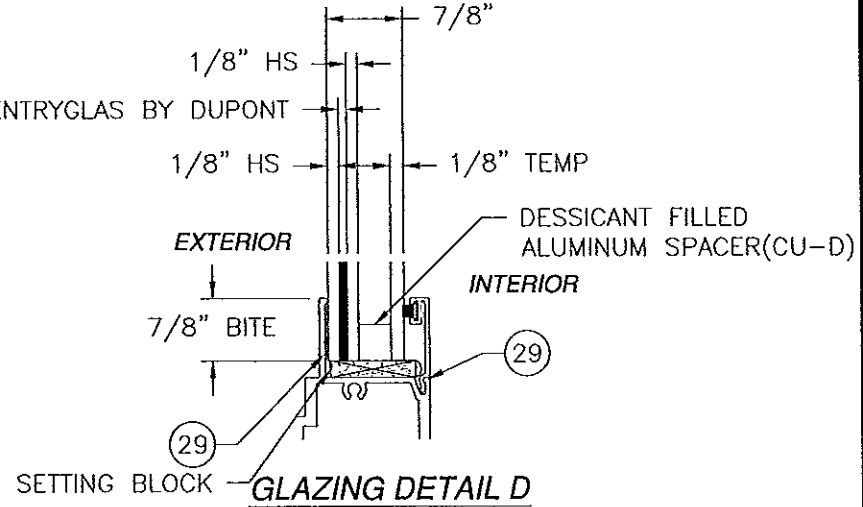
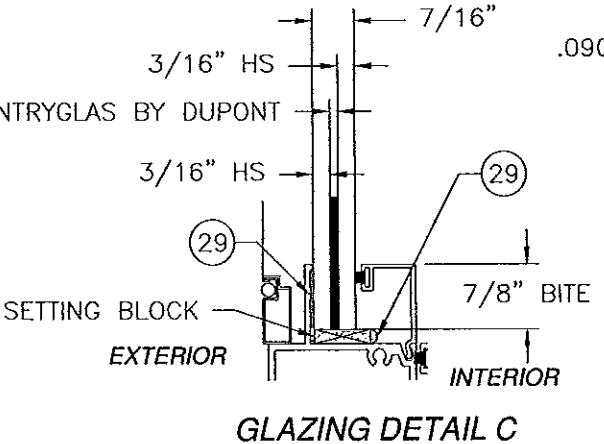
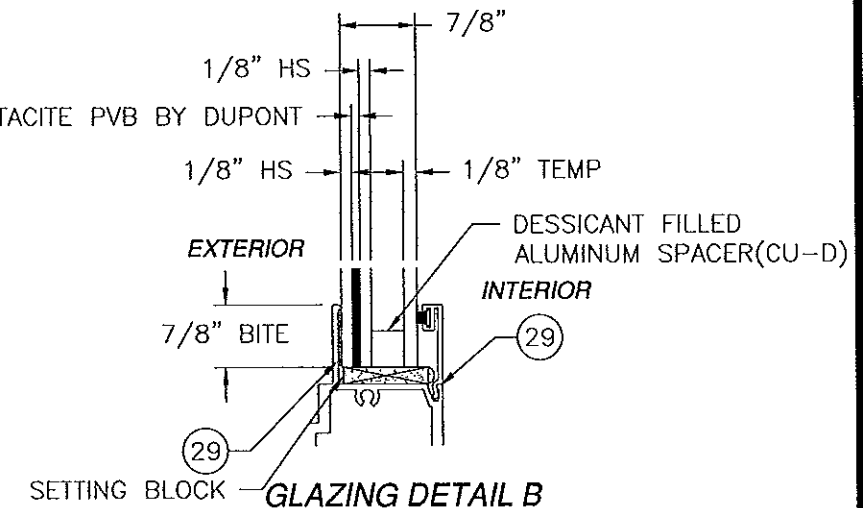
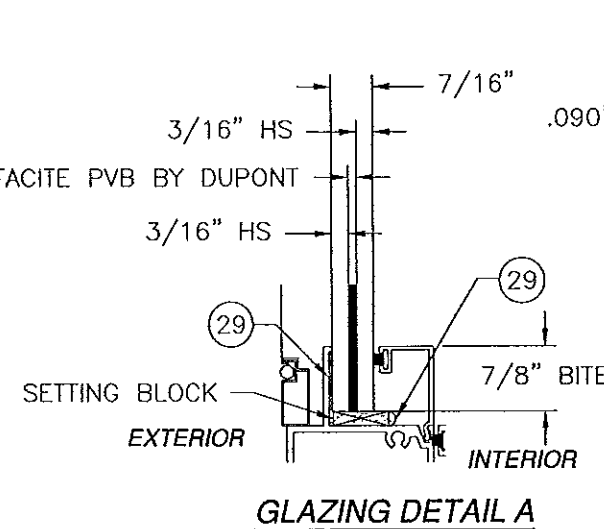
4070 HORIZONTAL ROLLING WINDOW
XOX, XO & OX
XOX (1/4-1/2-1/4) ELEVATION

DRAWN: V.L.	DWG NO. 08-01969	REV A
SCALE NTS	DATE 3/22/2013	SHEET 7 OF 15



ITEM NO.:	PART NUMBER	DESCRIPTION	MANUFACTURER	MATERIAL
1	FS-06614	FRAME HEAD EQUAL LEG	KEYMARK	ALUMINUM 6063-T6
2	FS-07760	FRAME SILL PAN	KEYMARK	ALUMINUM 6063-T6
3	FS-07427	FRAME JAMB EQUAL LEG	KEYMARK	ALUMINUM 6063-T6
4	FS-07422	SILL TANK	KEYMARK	ALUMINUM 6063-T6
5	S-52726	SILL TRACK	KEYMARK	ALUMINUM 6063-T6
6	FS-06618	SASH TOP RAIL	KEYMARK	ALUMINUM 6063-T6
7	FH-07425	SASH BOTTOM RAIL	KEYMARK	ALUMINUM 6063-T6
8	FH-07418	SASH LOCK STILE	KEYMARK	ALUMINUM 6063-T6
9	FH-06615	FIXED MEETING STILE	KEYMARK	ALUMINUM 6063-T6
10	FH-06671	FRAME FILLER	KEYMARK	ALUMINUM 6063-T6
11	FH-06616	SASH INTERLOCK	KEYMARK	ALUMINUM 6063-T6
12	FS-06667	7/16" GLASS STOP	KEYMARK	ALUMINUM 6063-T6
13	FS-06619	15/16" GLASS STOP	KEYMARK	ALUMINUM 6063-T6
14	H4000-BL-SL202	SASH LOCK		
15	V-470-SS-ROHOU	ROLLER/HOUSING ASSEMBLY		
16	TP1104	GLASS STOP VINYL	TEAM PLASTICS	
17	W0600-BL-0500R	.187x.150 ULTRAFAB WEATHERSTRIP	ULTRAFAB	
18	121998	.187x.200 ULTRAFAB WEATHERSTRIP	ULTRAFAB	
19	122002	.187X.240 ULTRAFAB WEATHERSTRIP	ULTRAFAB	
20	122003	.187X.350 ULTRAFAB WEATHERSTRIP	ULTRAFAB	
21	W4000-BL-SCE42	1.3X1.75X.375 CLOSED CELL FOAM PAD	FRANK LOWE	NEOPRENE 45-55 DURO
22	131096	#6X3/4" FH SMS		
23	131014	#8X1" PH SMS		
24	S4000-XX-150	SCREEN HEAD, JAMB & SILL		
25	S10010-BL2200R	SCREEN SPLINE		
26	SBV-XX-0600Z	SCREEN CLOTH		
27	54080-ML-FB11	SCREEN CORNER KEY		
28	121104	GLASS SHIM	FRANK LOWE	DUROMETER 80
29	SIKA 552	SILICONE SEALANT	SIKA	
30	FS-07847	CLIP	KEYMARK	ALUMINUM 6063-T6
31	FS-07492	FIXED MEETING RAIL REINFORCEMENT	KEYMARK	ALUMINUM 6005-T6
32	FS-07493	SASH MEETING RAIL REINFORCEMENT	KEYMARK	ALUMINUM 6005-T6
33	FS-07418	FRAME HEAD FLANGE	KEYMARK	ALUMINUM 6063-T6
34	FS-07759	FRAME HEAD SILL PAN FLANGE	KEYMARK	ALUMINUM 6063-T6
35	FS-07428	FRAME HEAD JAMB FLANGE	KEYMARK	ALUMINUM 6063-T6

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	UPDATED PER MD COMMENTS	12/02/13	R.L.



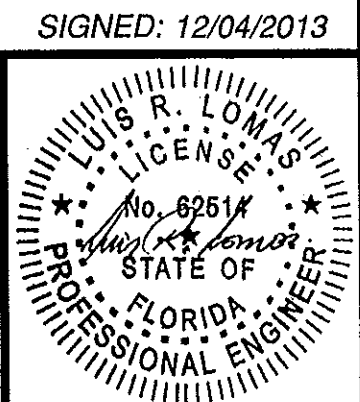
Approved as complying with the
Florida Building Code
Date: Jan 23, 2014
NOA# 13-0624-04
Miami Dade Product Control
By: Manuel Perez

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Phone: 407.481.8400
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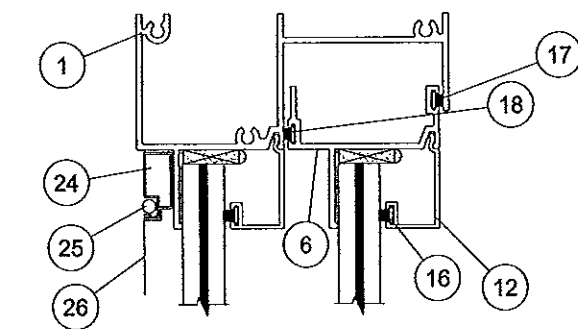
4070 HORIZONTAL ROLLING WINDOW
XOX, XO & OX
B.O.M. & GLAZING DETAILS

DRAWN: V.L.	DWG NO. 08-01969	REV A
SCALE NTS	DATE 3/22/2013	SHEET 8 OF 15

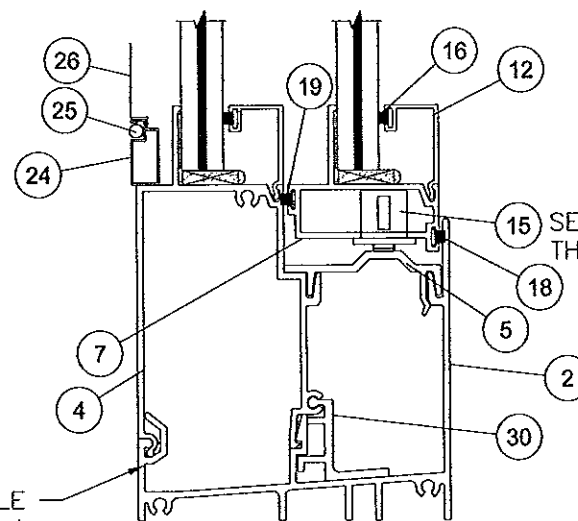


REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	UPDATED PER MD COMMENTS	12/02/13	R.L.

FOR ILLUSTRATION PURPOSES ONLY
FOR INSTALLATION DETAILS REFER TO SHEETS 11 AND 12

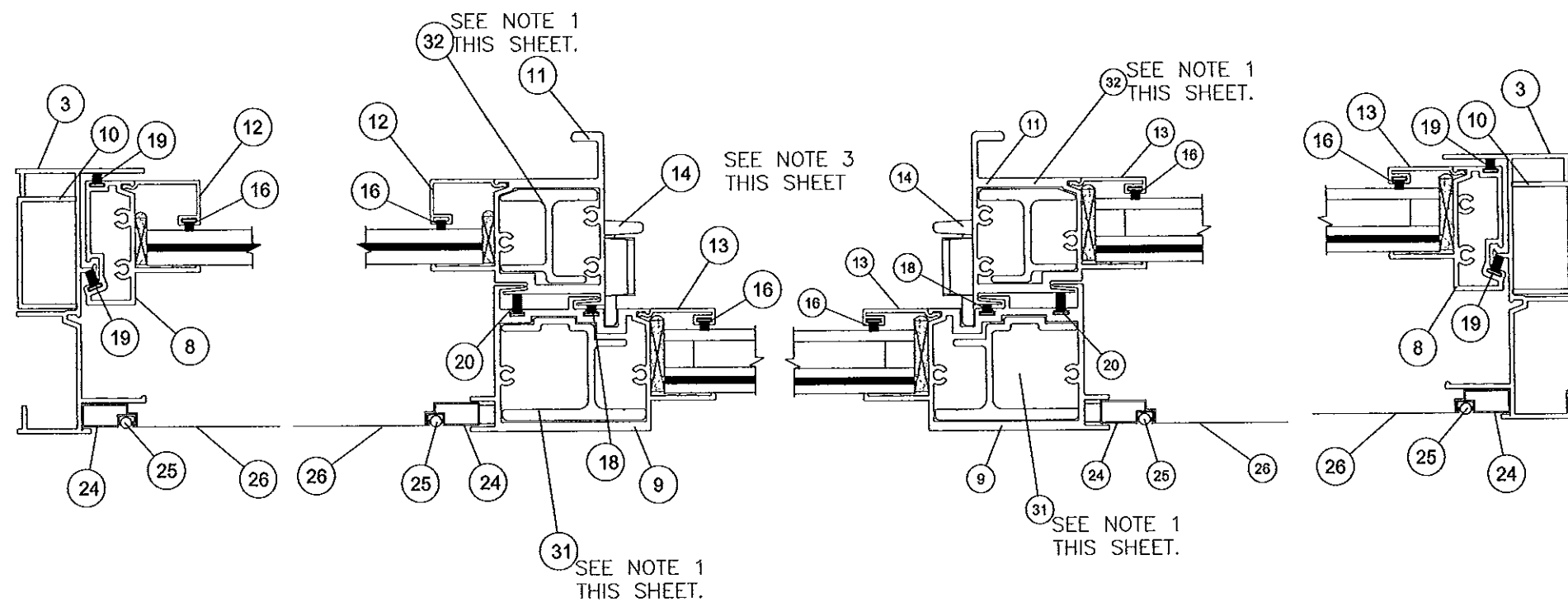


EXTERIOR INTERIOR



WEEP HOLE
SEE NOTE 4
THIS SHEET

B
9 VERTICAL SECTION



A
9 HORIZONTAL SECTION

NOTES:

1. ITEMS #31 AND #32 ARE INSTALLED IN UNITS WITH GLASS C AND D ONLY.
2. LOCATE ITEM #15 ONE AT EACH END OF ACTIVE SASH BOTTOM RAIL.
3. LOCATE ITEM #14 (2) AT 12" FROM, HEAD AND SILL.
4. WEEPS ARE LOCATED AT 9" FROM EACH CORNER AT BOTTOM RAIL.

Approved as complying with the
Florida Building Code
Date Jan 23, 2014
NOA# 13-0624.04
Miami Dade Product Control

By Manuel Perez

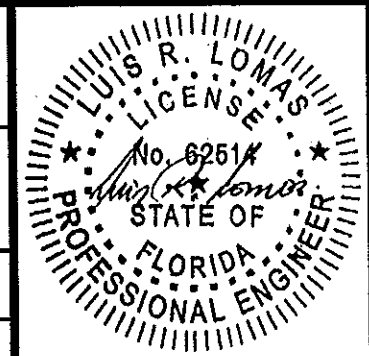
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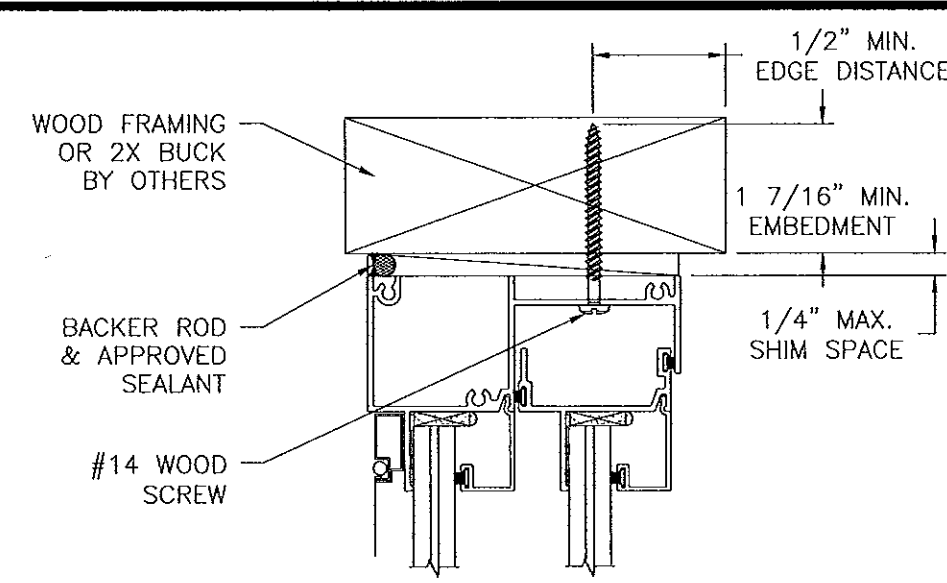
4070 HORIZONTAL ROLLING WINDOW
XOX, XO & OX
FLUSH CROSS SECTIONS

DRAWN: V.L.	DWG NO. 08-01969	REV A
SCALE NTS	DATE 3/22/2013	SHEET 9 OF 15

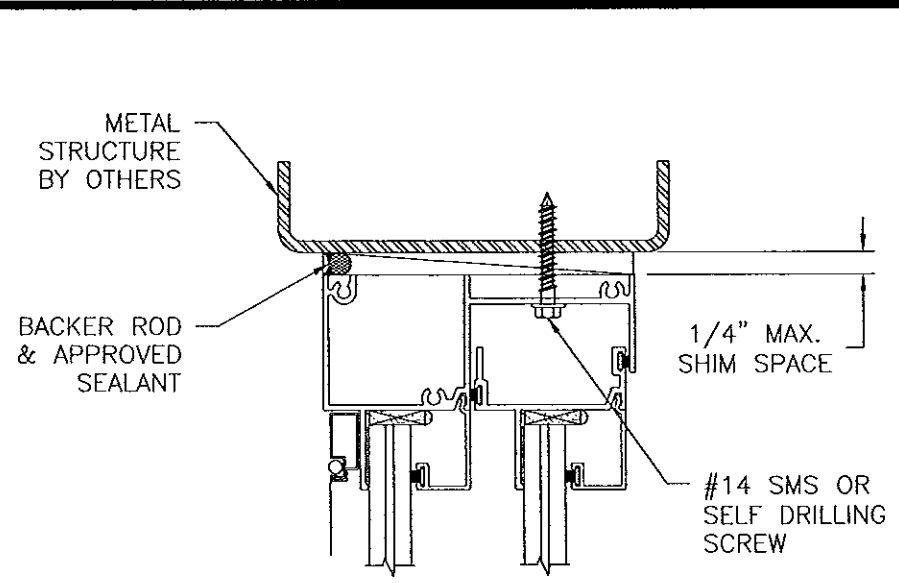
SIGNED: 12/04/2013



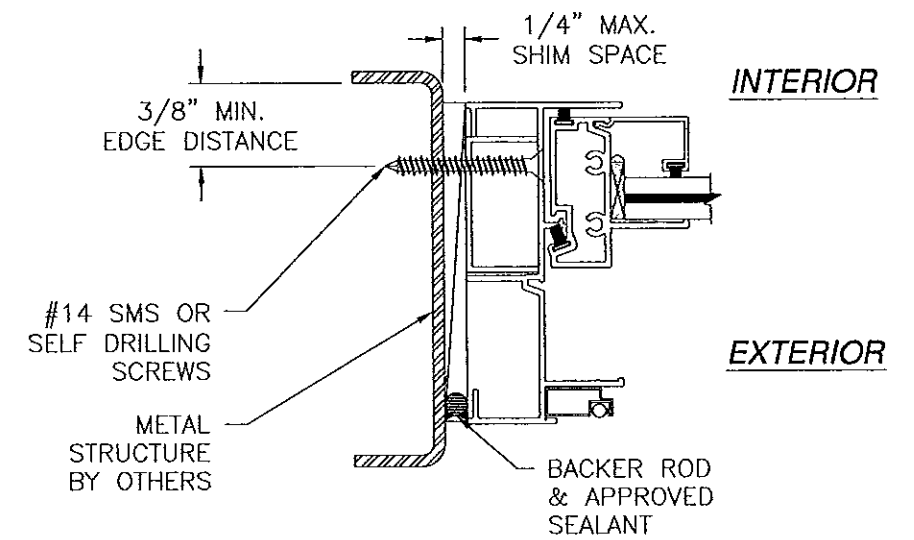
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	UPDATED PER MD COMMENTS	12/02/13	R.L.



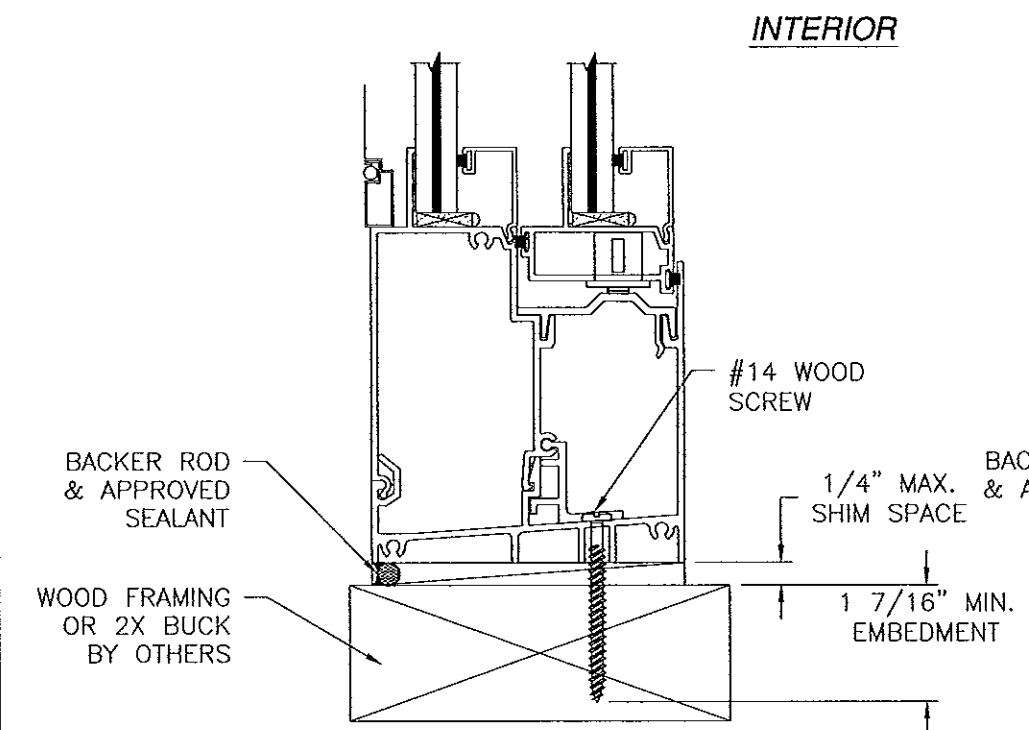
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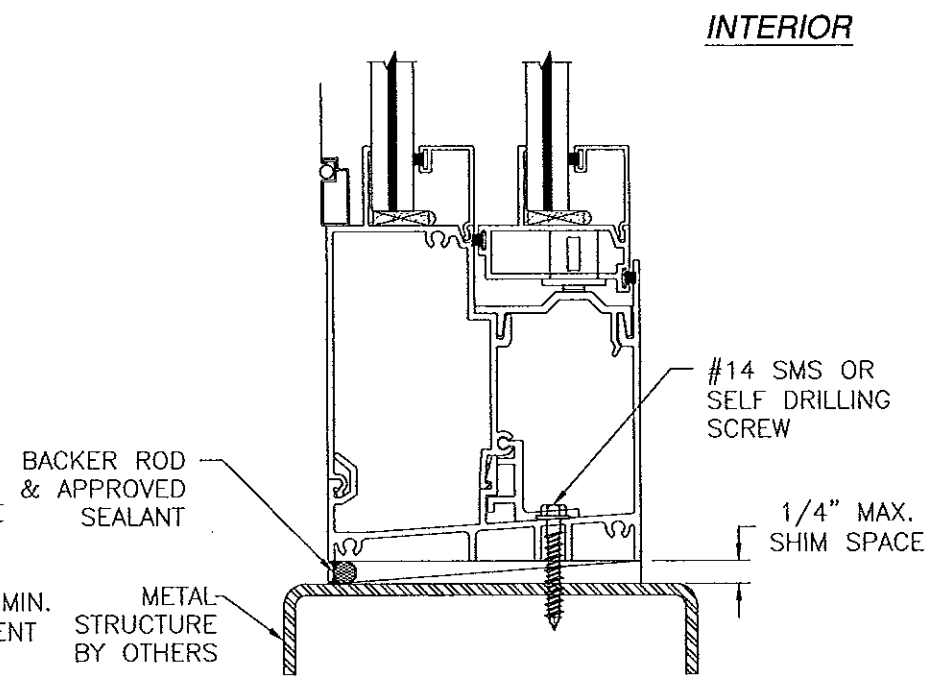
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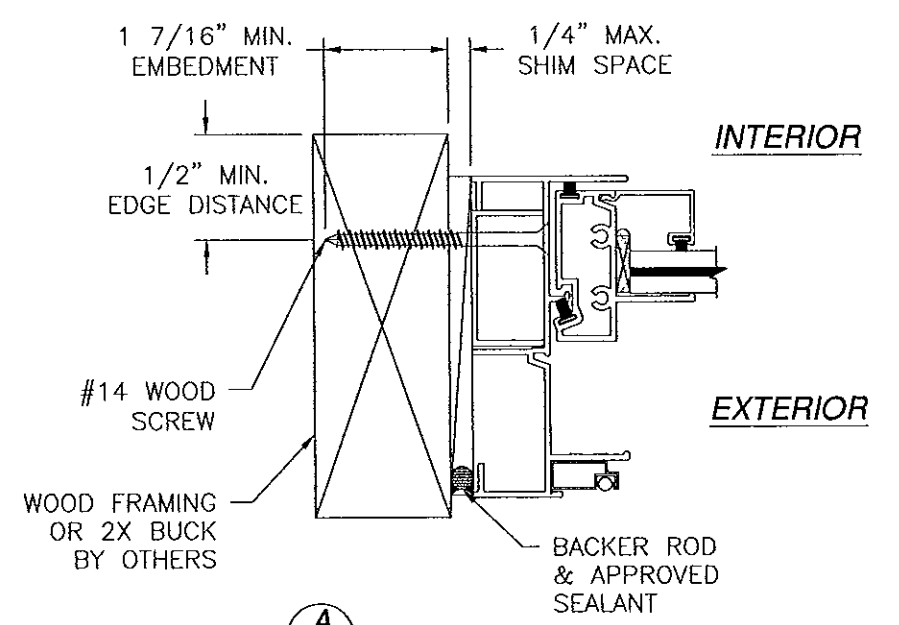
**A 11 JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION**



**B 11 VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION**



**B 11 VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION**



**A 11 JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION**

- NOTES:**
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
 2. SEALANT JOINT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112
 3. PERIMETER TO BE SEALED WITH SILICONE.

Approved as complying with the
Florida Building Code
Date Jan 23, 2014
NOA# 13-0624.04
Manual Made Product Control
By Mauro Pires

WinDoor

INCORPORATED

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4070 HORIZONTAL ROLLING WINDOW
XOX, XO & OX
FLUSH INSTALLATION DETAILS

DRAWN: V.L.

DWG NO. 08-01969

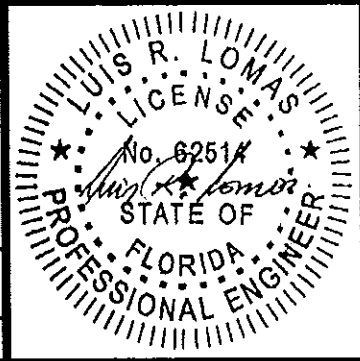
REV A

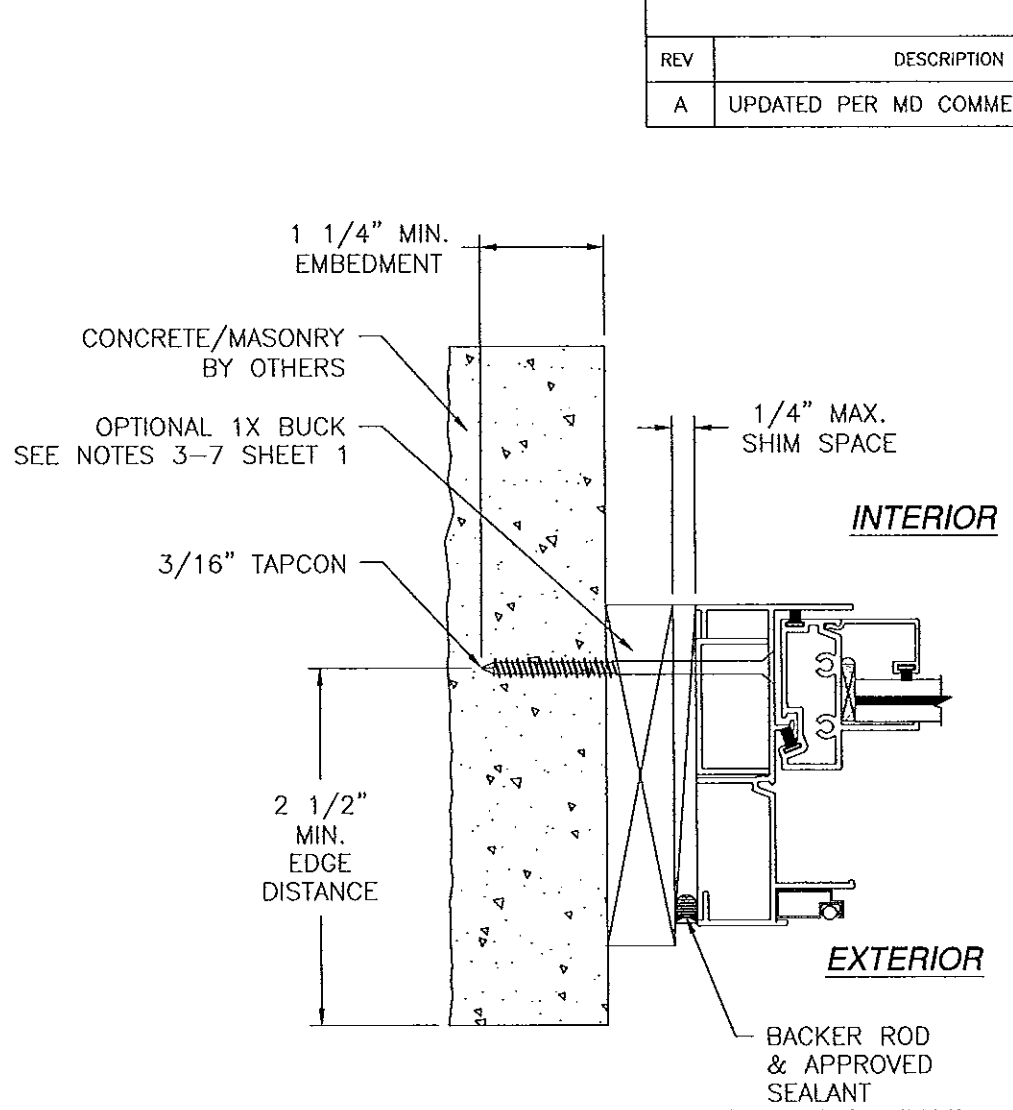
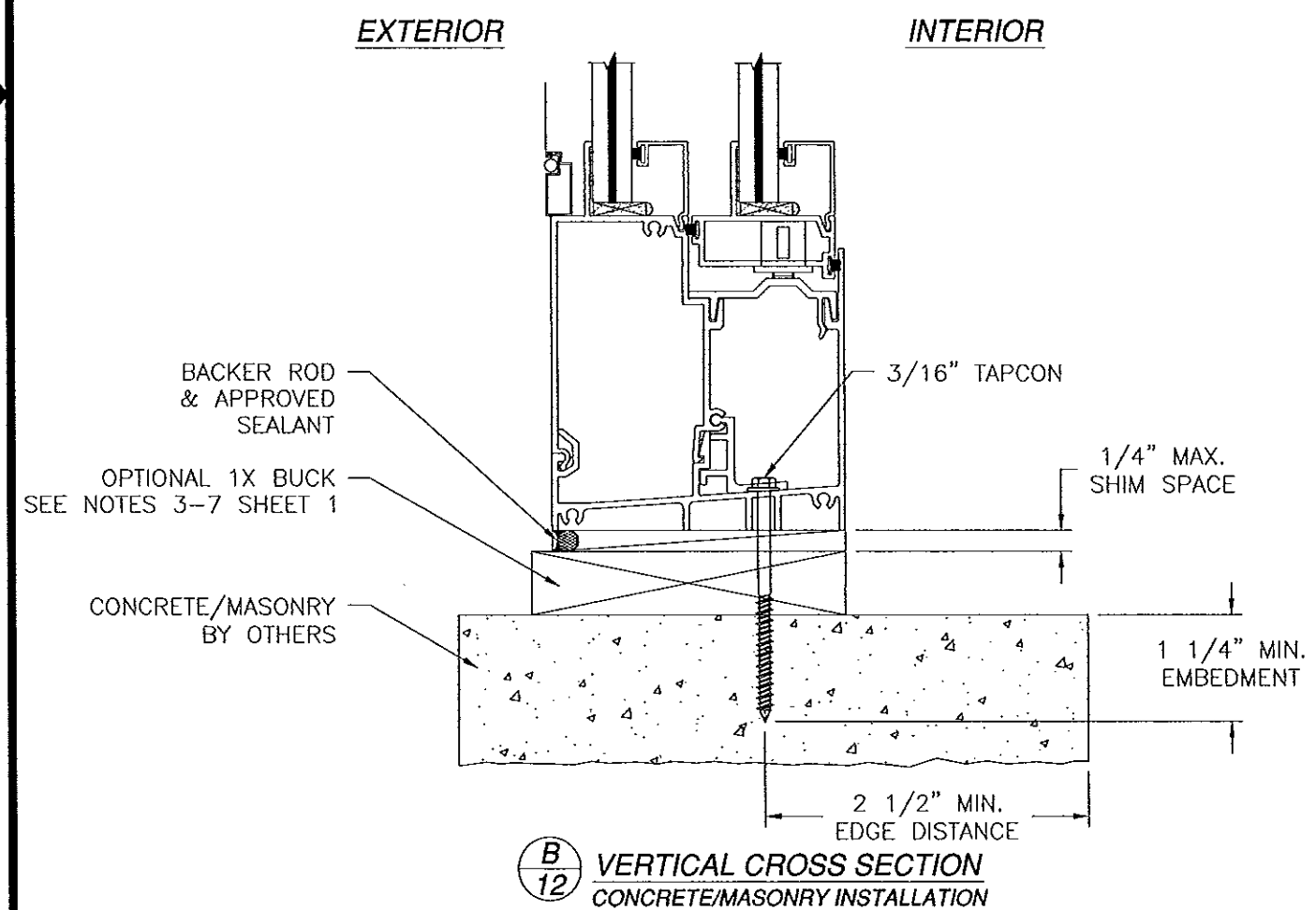
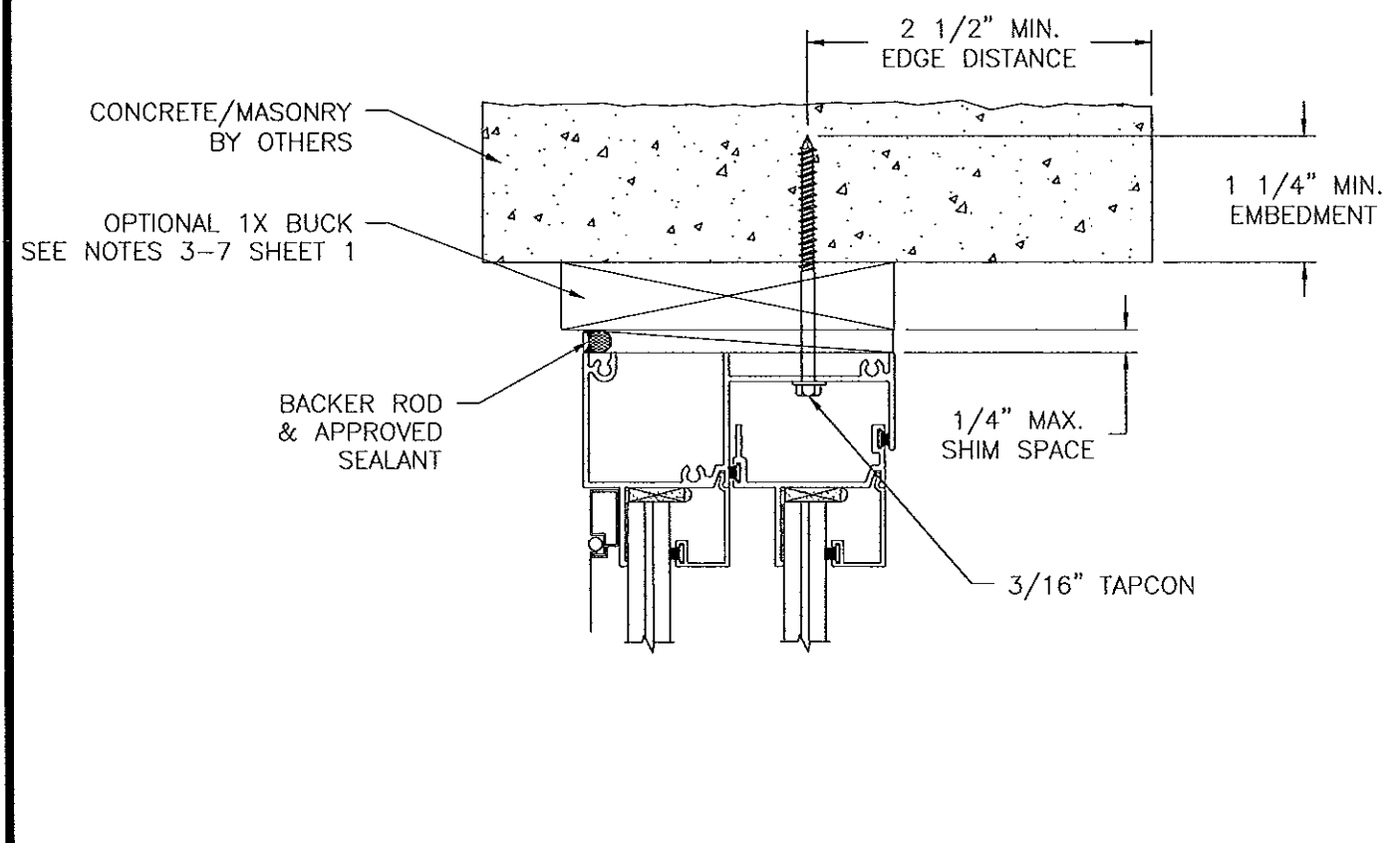
SCALE NTS

DATE 3/22/2013

SHEET 11 OF 15

SIGNED: 12/04/2013





A
12 JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

- NOTES:**
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
 2. SEALANT JOINT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112.
 3. PERIMETER TO BE SEALED WITH SILICONE.

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	UPDATED PER MD COMMENTS	12/02/13	R.L.

Approved as complying with the
Florida Building Code
Date: Jan 23, 2014
NOA# 13-0674-04
Miami Dade Product Control
By: *Manuel Perez*

WinDoor
INCORPORATED

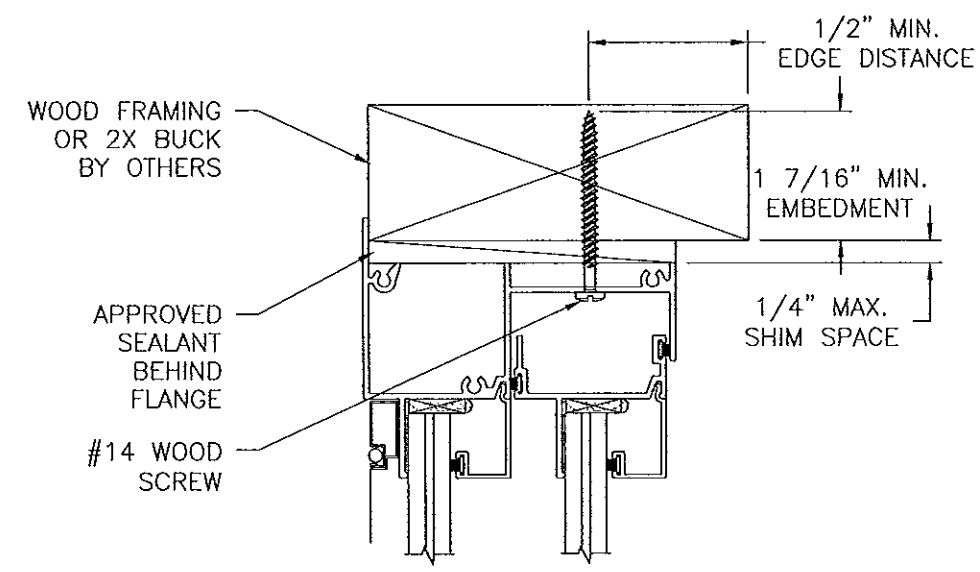
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4070 HORIZONTAL ROLLING WINDOW
XOX, XO & OX
FLUSH INSTALLATION DETAILS

DRAWN: V.L.	DWG NO. 08-01969	REV A
SCALE NTS	DATE 3/22/2013	SHEET 12 OF 15

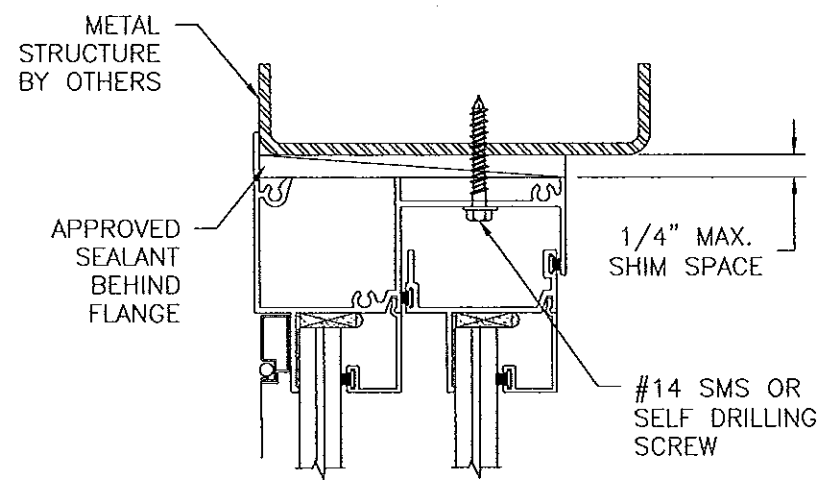
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REVISIONS			
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A	UPDATED PER MD COMMENTS	12/02/13	R.L.



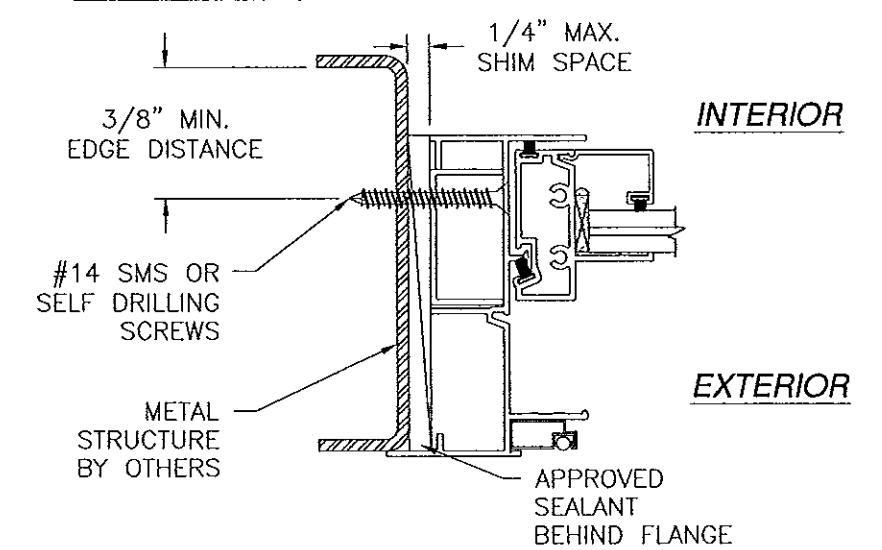
EXTERIOR

INTERIOR

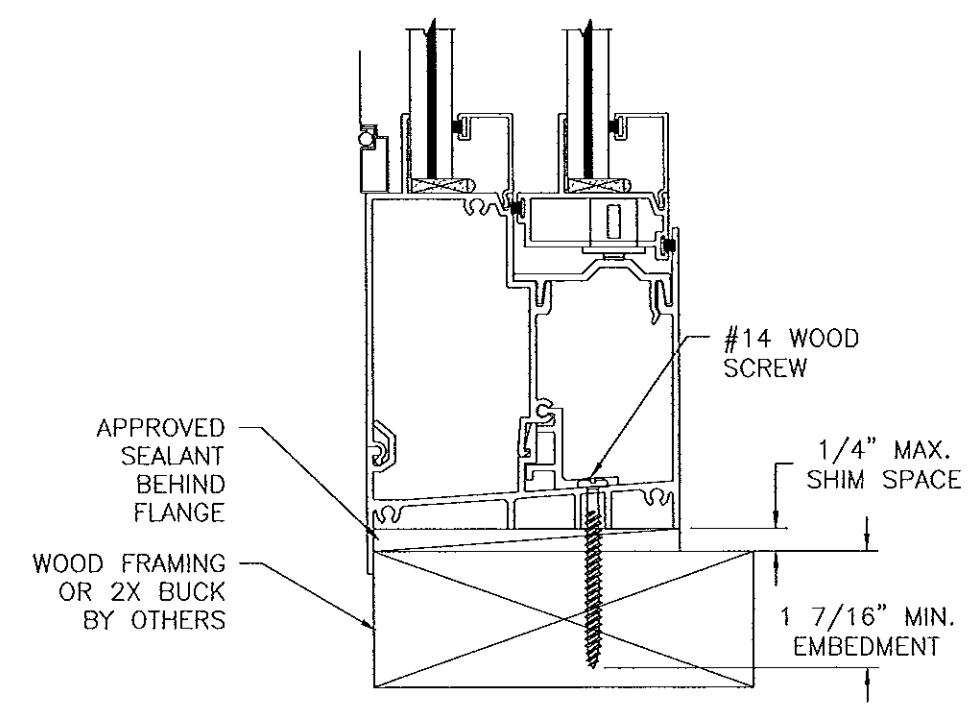


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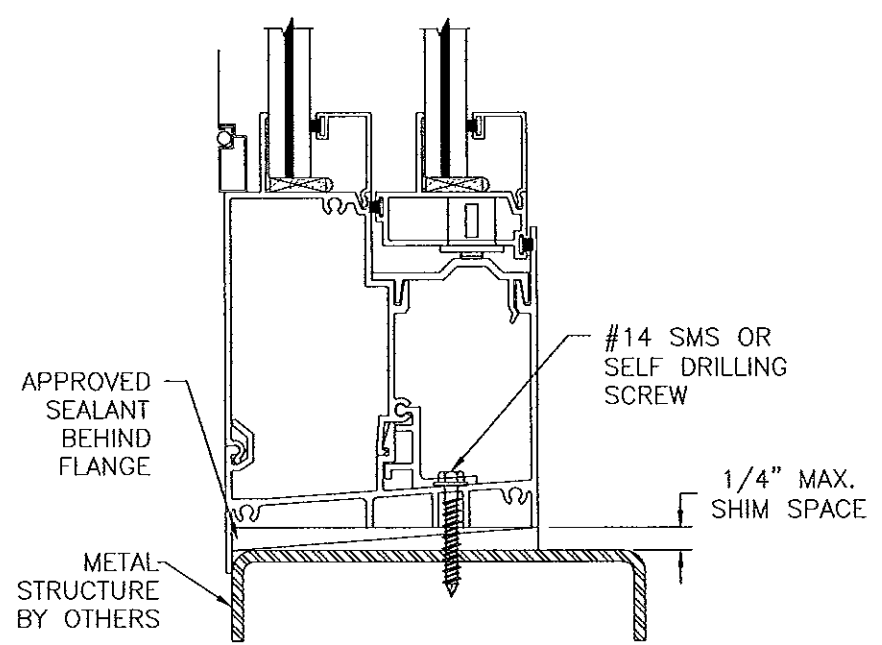
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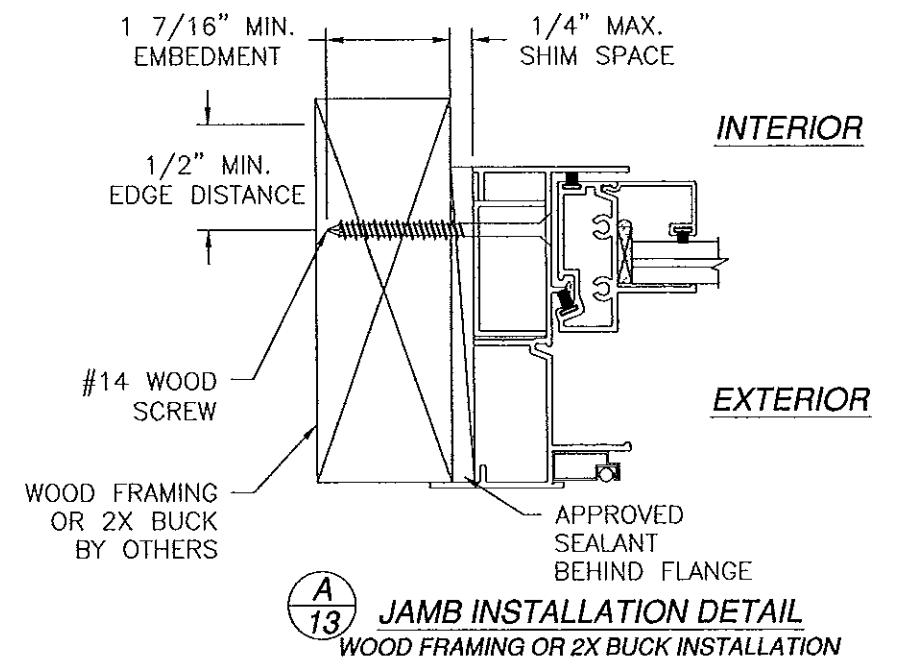
A
13 JAMB INSTALLATION DETAIL
METAL STRUCTURE INSTALLATION



B
13 VERTICAL CROSS SECTION
WOOD FRAMING OR 2X BUCK INSTALLATION



B
13 VERTICAL CROSS SECTION
METAL STRUCTURE INSTALLATION



A
13 JAMB INSTALLATION DETAIL
WOOD FRAMING OR 2X BUCK INSTALLATION

- NOTES:
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
 2. SEALANT JOINT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112
 3. PERIMETER TO BE SEALED WITH SILICONE.

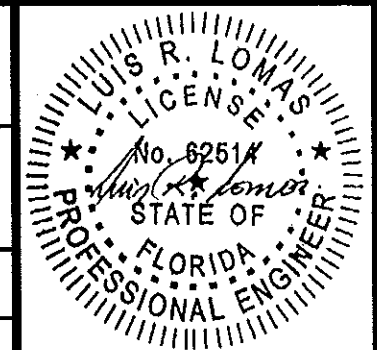
Approved as complying with the
Florida Building Code
Date: Jan 13, 2014
NOAH 13-0624
Miami Dade Product Control
By: Manuel Perez

WinDoor
INCORPORATED
7500 AMSTERDAM DRIVE
ORLANDO, FL 32832
Phone: 407.481.8400
Fax: 407.481.0505
www.windoorinc.com

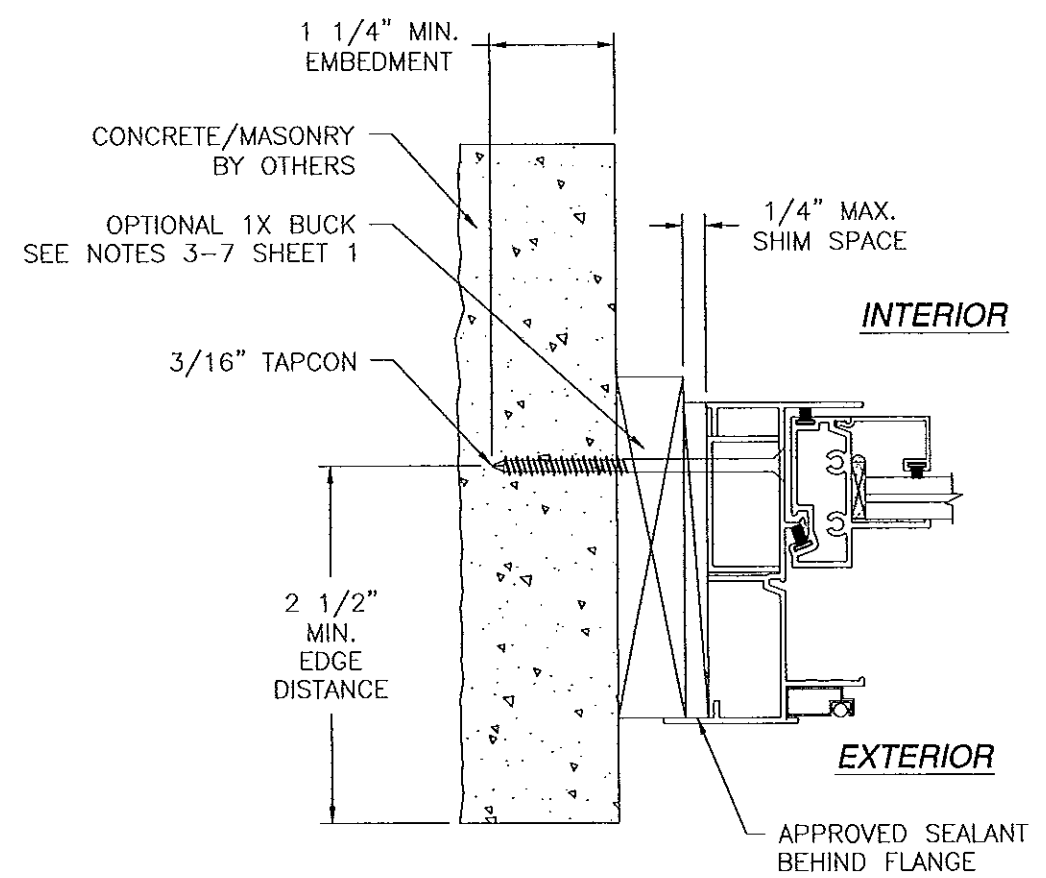
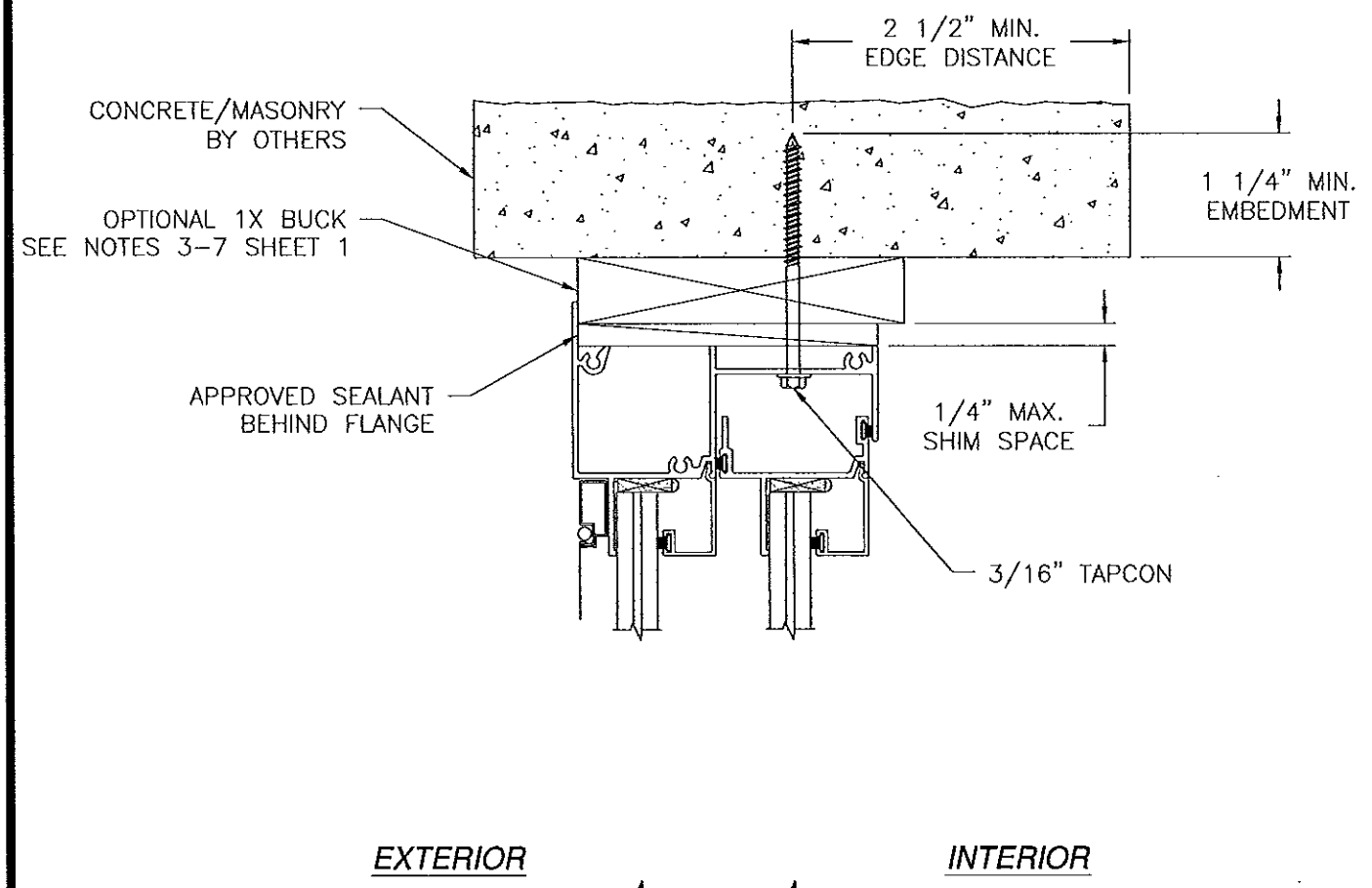
4070 HORIZONTAL ROLLING WINDOW
XOX, XO & OX
FLANGE INSTALLATION DETAILS

DRAWN: V.L.	DWG NO. 08-01969	REV A
SCALE NTS	DATE 3/22/2013	SHEET 13 OF 15

SIGNED: 12/04/2013

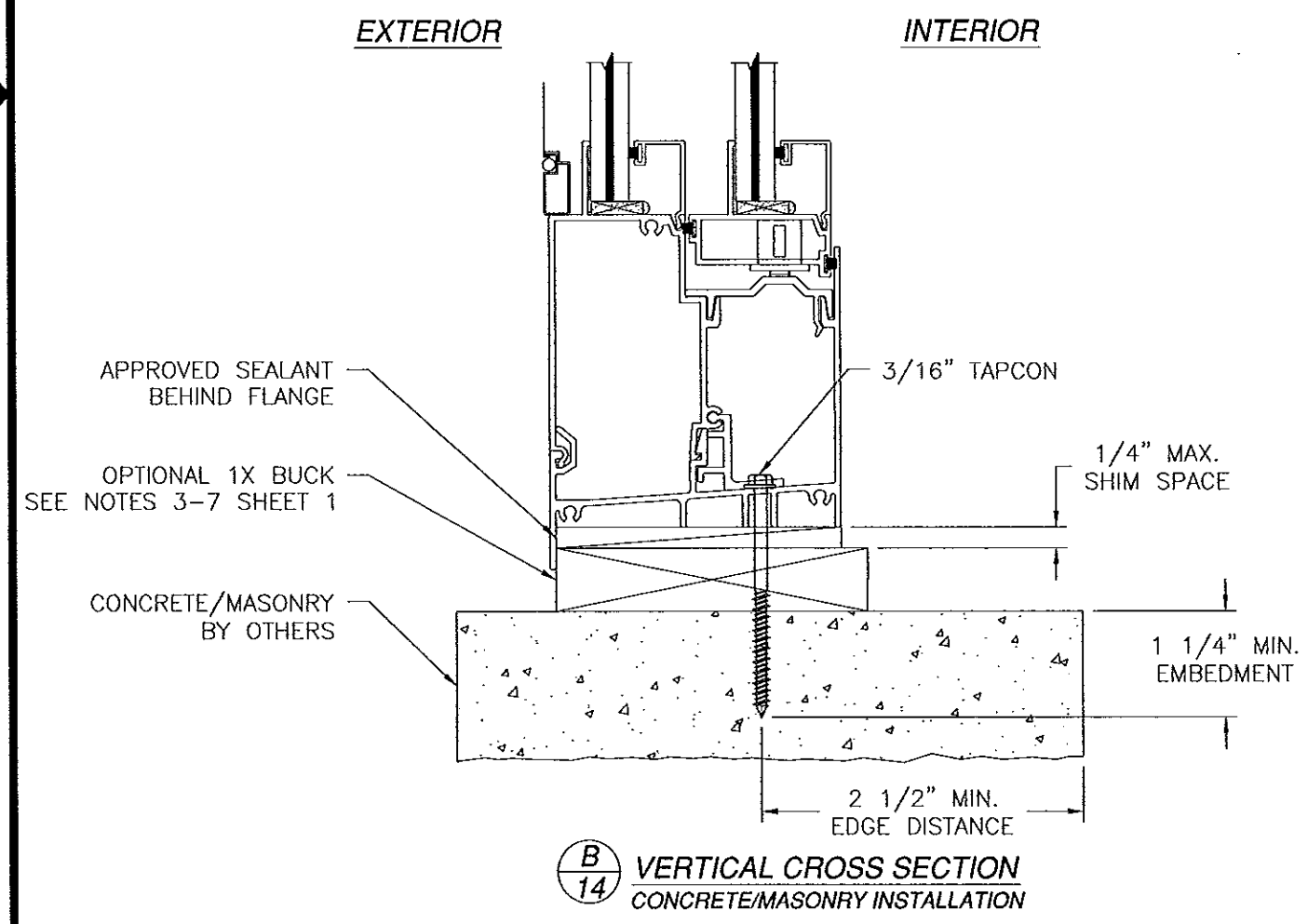


REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	UPDATED PER MD COMMENTS	12/02/13	R.L.



A
14 JAMB INSTALLATION DETAIL
CONCRETE/MASONRY INSTALLATION

- NOTES:
1. INTERIOR AND EXTERIOR FINISHES, BY OTHERS, NOT SHOWN FOR CLARITY.
 2. SEALANT JOINT BY OTHERS TO BE DESIGNED IN ACCORDANCE WITH ASTM E2112.
 3. PERIMETER TO BE SEALED WITH SILICONE.



B
14 VERTICAL CROSS SECTION
CONCRETE/MASONRY INSTALLATION

Approved as complying with the
Florida Building Code
Date: 12/02/2013
By: [Signature]
Miami Dade Product Control

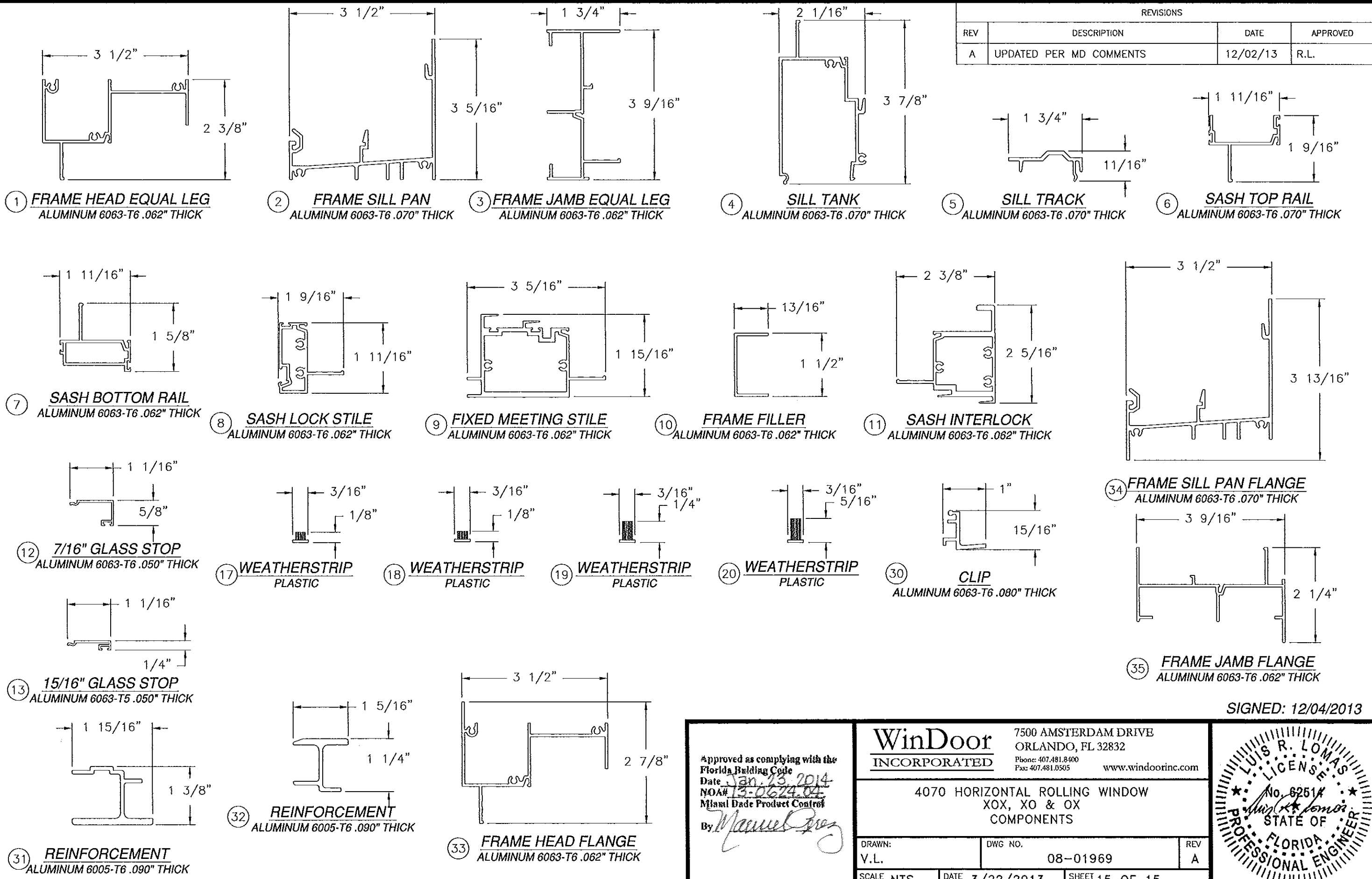
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4070 HORIZONTAL ROLLING WINDOW
XOX, XO & OX
FLANGE INSTALLATION DETAILS

SIGNED: 12/04/2013

DRAWN: V.L.	DWG NO. 08-01969	REV A
SCALE NTS	DATE 3/22/2013	SHEET 14 OF 15



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	UPDATED PER MD COMMENTS	12/02/13	R.L.

SIGNED: 12/04/2013

Approved as complying with the
Florida Building Code
Date: Jan 23, 2014
NOAH 13-0624-04
Miami Dade Product Control
By: *Manuel Perez*

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4070 HORIZONTAL ROLLING WINDOW
XOX, XO & OX
COMPONENTS

DRAWN: V.L.
SCALE: NTS

DWG NO: 08-01969
DATE: 3/22/2013

REV: A
SHEET: 15 OF 15

LUIS R. LOMAS
No. 62514
STATE OF FLORIDA
PROFESSIONAL ENGINEER